Pioneer

Operation Manual

NAVIGATION AV SYSTEM

AVIC-F10BT

Be sure to read “Important Information for the user” first! “Important Information for the user” includes the important information that you must understand before using this navigation system.

English

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Contents

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. *After you have finished reading the instructions, keep this manual in a safe place for future reference.*

Important

The screens shown in the examples may differ from actual screens.
Actual screens may be changed without notice for performance and function improvements.

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Manual overview

Before using this product, be sure to read "Important Information for the user" (a separate manual) which contains warnings, cautions, and other important information that you should note.

How to use this manual

Finding the operation procedure for what you want to do

When you have decided what you want to do, you can find the page you need from the "**Contents**".

Finding the operation procedure from a menu name

If you want to check the meaning of an item displayed on the screen, you will find the necessary page from the "*Display information*" at the end of the manual.

Glossary

Use the glossary to find the meanings of terms.

Terminology

Before moving on, take a few minutes to read the following information about the conventions used in this manual. Familiarity with these conventions will help you greatly as you learn how to use your new equipment.

- Buttons on your navigation system are described in **ALL CAPITAL**, **BOLD** lettering:
  e.g.)
  MENU button, **MAP** button.
- Items in different menus, screen titles, and functional components are described in **bold** with double quotation marks " ":
  e.g.)
  "**Destination Menu**" screen or "**AV Source**" screen
- Touch panel keys that are available on the screen are described in **bold** in brackets []:
  e.g.)
  [**Destination**], [**Settings**].
- Extra information, alternatives and other notes are presented in the following format:
  e.g.)
  ❒ If the home location has not been stored yet, set the location first.
- References are indicated like this:
  e.g.)
  ➲ For details, refer to *How to use the navigation menu screens* on page 18.

Definitions of terminology

"Front Display" and "Rear Display"

In this manual, the screen that is attached to the body of this navigation unit will be referred to as the "Front Display". Any additional optional screen that is purchased for use in conjunction with this navigation unit will be referred to as the "Rear Display".

"Video image"

"Video image" in this manual indicates moving images of DVD-Video, DivX®, iPod, and any equipment that is connected to this system with an RCA cable, such as general-purpose AV equipment.

"External storage device (USB, SD)"

The SD memory card, SDHC memory card and USB memory device are collectively referred to as the "external storage device (USB, SD)". If it indicates the USB memory only, it is referred to as the "USB storage device".

"SD memory card"

The SD memory card and SDHC memory card are collectively referred to as the "SD memory card". ■

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Notice regarding video viewing

Remember that use of this system for commercial or public viewing purposes may constitute an infringement on the author's rights as protected by the Copyright Law.

Notice regarding DVD-Video viewing

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorised by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Notice regarding MP3 file usage

Supply of this navigation system conveys only a licence for private, non-commercial use and does not convey a licence nor imply any right to use this product in any commercial (i.e. revenue-generating), real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent licence for such use is required. For details, please visit http://www.mp3licensing.com.

iPod compatibility

This product supports only the following iPod models and iPod software versions. Others may not work correctly.

- iPod nano first generation; Ver. 1.3.1
- iPod nano second generation; Ver. 1.1.3
- iPod nano third generation; Ver. 1.1.3
- iPod nano fourth generation; Ver. 1.0.3
- iPod fifth generation; Ver. 1.3
- iPod classic; Ver. 2.0.1
- iPod touch first generation; Ver. 2.2.1
- iPod touch second generation; Ver. 2.2.1
- iPhone; Ver. 2.2.1
- iPhone 3G; Ver. 2.2.1

❒ In this manual, iPod and iPhone will be referred to as iPod.
❒ When you use this navigation system with a Pioneer USB interface cable for iPod (CD-IU50V) (sold separately), you can control an iPod compatible with this navigation system.
❒ To obtain maximum performance, we recommend that you use the latest software for the iPod.
❒ Operation methods may vary depending on the iPod models and the software version of iPod.
❒ For more details about iPod compatibility with this navigation system, refer to the information on our website.
❒ iPod is a trademark of Apple Inc., registered in the U.S. and other countries.
❒ iPhone is a trademark of Apple Inc.

Map coverage

For more details about the map coverage of this navigation system, refer to the information on our website.

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Protecting the LCD panel and screen

- Do not allow direct sunlight to fall on the LCD screen when this product is not being used. Extended exposure to direct sunlight can result in LCD screen malfunction due to the resulting high temperatures.
- When using a mobile phone, keep the aerial of the mobile phone away from the LCD screen to prevent disruption of the video in the form of spots, coloured stripes, etc.
- To protect the LCD screen from damage, be sure to touch the touch panel keys with your finger and gently touch the screen.

Notes on internal memory

Before removing the vehicle battery

If the battery is disconnected or discharged, the memory will be erased and must be reprogrammed.

- Some data remains. Read *Returning the navigation system to the default or factory settings* before you operate this function.
  - For more detailed information about the items which would be erased, refer to *Returning the navigation system to the default or factory settings* on page 133.

Data subject to erasure

The information is erased by disconnecting the yellow lead from the battery (or removing the battery itself). However, some items remain.

- Some data remains. Read *Returning the navigation system to the default or factory settings* before you operate this function.
  - For more detailed information about the items which would be erased, refer to *Returning the navigation system to the default or factory settings* on page 133.

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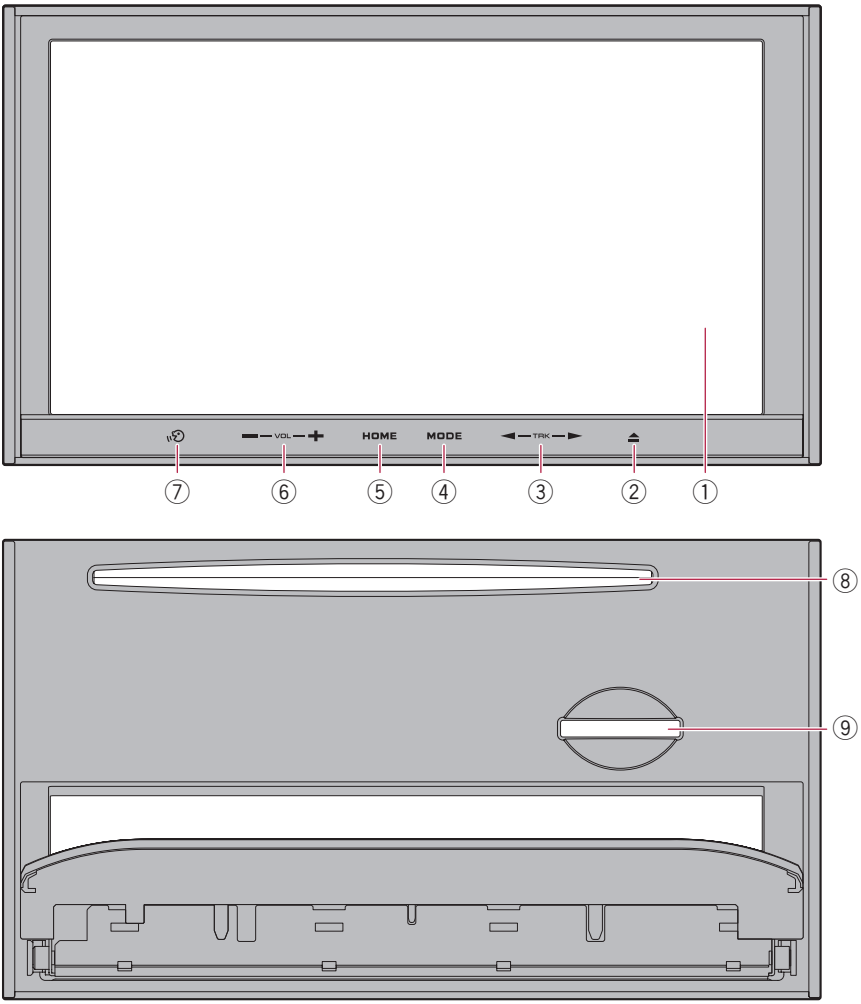
Checking part names and functions

This chapter gives information about the names of the parts and the main features using the buttons.



① **LCD screen**

② **OPEN CLOSE button**

③ **TRK (◄/►) button**
Press to perform manual seek tuning, fast forward, reverse and track search controls.

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➲ For more details, refer to the descriptions from Chapter 13 to Chapter 26.

④ **MODE button**

- Press to switch between the map screen and the AV operation screen.
- Press to display the map screen while the navigation function screen is displayed.
- Press and hold to display the "**Picture Adjustment**" screen.
  ➲ For details, refer to *Operating the picture adjustment* on page 122.

⑤ **HOME button**

- Press the **HOME** button to display the "**Top Menu**".
- Press to switch between the "Classic Menu" and the "Shortcut Menu" while the "**Top Menu**" is displayed.
- Press and hold to turn off the screen display.

⑥ **VOL (+/–) button**

Adjusts the AV (Audio and Video) source volume.

⑦ **VOICE button**

Press the **VOICE** button to hear the previous route guidance.
Press and hold the **VOICE** button to switch the AV source to mute.

⑧ **Disc loading slot**

Insert a disc to play.
➲ For details concerning operations, refer to *Inserting and ejecting a disc* on this page.

⑨ **SD card slot**

➲ For more detailed information, refer to *Inserting and ejecting an SD memory card* on the next page.

Adjusting the LCD panel angle

WARNING

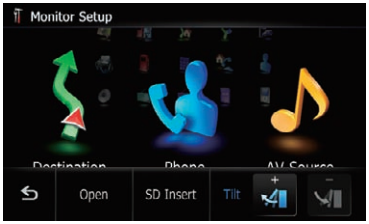
When opening, closing and adjusting the angle of the LCD panel, be careful not to get your finger caught.

CAUTION

Do not open and close the LCD panel with hands by force. This may cause malfunction.

1 Press the OPEN CLOSE button.

The "**Monitor Setup**" screen appears.



2 Touch or to adjust the angle.

3 Touch .

❒ The adjusted angle of the LCD panel will be memorised and the LCD panel will automatically return to that angle the next time the LCD panel is opened or closed.

Inserting and ejecting a disc

WARNING

- When opening, closing and adjusting the angle of the LCD panel, be careful not to get your finger caught.
- Do not use with the LCD panel left open. If LCD panel is left open, it may result in injury in the event of an accident.

CAUTION

- Do not open and close the LCD panel with hands by force. This may cause malfunction.

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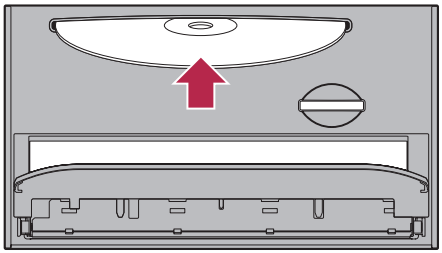
- Do not operate this navigation system until the LCD panel completely opens or closes. If this navigation system is operated while the LCD panel is opening or closing, the LCD panel may stop at that angle for safety.
- Do not place a glass or a can on this navigation system when the LCD panel is open. Doing so may break this navigation system.

Inserting a disc

1 Press the OPEN CLOSE button.
The "**Monitor Setup**" screen appears.

2 Touch [Open].
The LCD panel opens, and the disc loading slot appears.

3 Insert a disc into the disc loading slot.



❒ Do not insert anything other than a disc into the disc loading slot.

4 Press the OPEN CLOSE button.
The LCD panel closes.

Ejecting a disc

1 Press the OPEN CLOSE button.
The "**Monitor Setup**" screen appears.

2 Touch [Disc Eject].
The LCD panel opens, and the disc is ejected.

3 Press the OPEN CLOSE button.
The LCD panel closes.

Inserting and ejecting an SD memory card

CAUTION

- To prevent data loss and damage to the storage device, never remove it from this navigation system while data is being transferred.
- If data loss or corruption occurs on the storage device for any reason, it is usually not possible to recover the data. Pioneer accepts no liability for damages, costs or expenses arising from data loss or corruption.
- Do not press the **OPEN CLOSE** button when the SD memory card is not fully inserted. Doing so may damage the card.
- Do not press the **OPEN CLOSE** button before the SD memory card has been completely removed. Doing so may damage the card. Press the middle of the SD memory card gently and pull out straight.

❒ This system is not compatible with Multi Media Card (MMC).
❒ Compatibility with all SD memory cards is not guaranteed.
❒ This unit may not achieve optimum performance with some SD memory cards.

Inserting an SD memory card

1 Press the OPEN CLOSE button.
The "**Monitor Setup**" screen appears.

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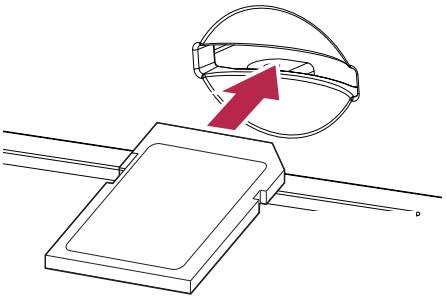
2 Touch [SD Insert].
The LCD panel opens, and the SD card slot appears.

3 Insert an SD memory card into the SD card slot.
Insert it with the label surface facing to the upside and press the card until it clicks and completely locks.

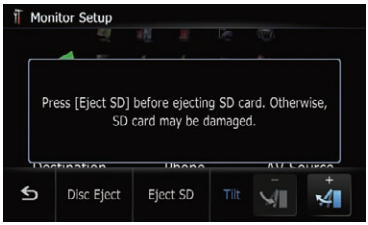


4 Press the OPEN CLOSE button.
The LCD panel closes, and then the navigation system restarts.

❒ If the SD memory card only contains music files or video files, the navigation system will not be restarted.

Ejecting an SD memory card

1 Press the OPEN CLOSE button.
The "**Monitor Setup**" screen appears.



2 Touch [Eject SD].
The following message appears.

3 Touch [Yes].
The navigation system restarts, and then the LCD panel opens.

4 Press the SD memory card until it clicks.

5 Pull out the SD memory card.

6 Press the OPEN CLOSE button.
The LCD panel closes, and then the navigation system restarts. ■

Plugging and unplugging a USB storage device

⚠ CAUTION

- To prevent data loss and damage to the storage device, never remove it from this navigation system while data is being transferred.
- If data loss or corruption occurs on the storage device for any reason, it is usually not possible to recover the data. Pioneer accepts no liability for damages, costs or expenses arising from data loss or corruption.

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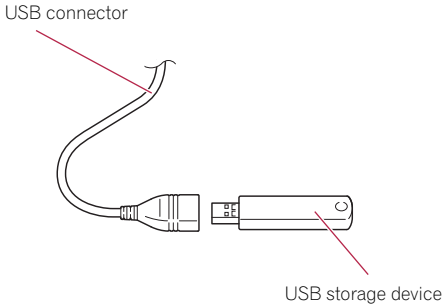
Plugging in a USB storage device

● **Plug a USB storage device into the USB connector.**



❒ Compatibility with all USB storage device is not guaranteed.
This navigation system may not achieve optimum performance with some USB storage devices.
❒ Connection via USB hub is not possible.

Unplugging a USB storage device

● **Pull out the USB storage device after checking that no data is being accessed.**

Connecting and disconnecting an iPod

CAUTION

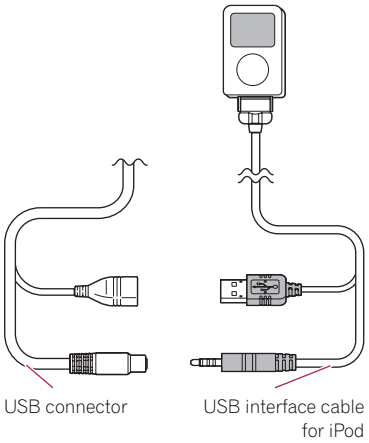
- To prevent data loss and damage to the storage device, never remove it from this navigation system while data is being transferred.
- If data loss or corruption occurs on the storage device for any reason, it is usually not possible to recover the data. Pioneer accepts no liability for damages, costs or expenses arising from data loss or corruption.

Connecting your iPod

Using the USB interface cable for iPod enables you to connect your iPod to the navigation system.

❒ A USB interface cable for iPod (CD-IU50V) (sold separately) is required for connection.

1 Pull out the USB storage device after checking that no data is being accessed.



❒ For more details about iPod compatibility with this navigation system, refer to the information on our website.
❒ Connection via USB hub is not possible.

2 Connect your iPod.

Disconnecting your iPod

● **Pull out the USB interface cable for iPod after checking that no data is being accessed.**

Flow from startup to termination

1 Start the engine to boot up the system.
After a short pause, the splash screen comes on for a few seconds.

❒ To protect the LCD screen from damage, be sure to touch the touch panel keys with your finger and gently touch the screen.

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2 Turn off the vehicle engine to terminate the system.
The navigation system is also turned off.

On first-time startup

When you use the navigation system for the first time, select the language that you want to use.

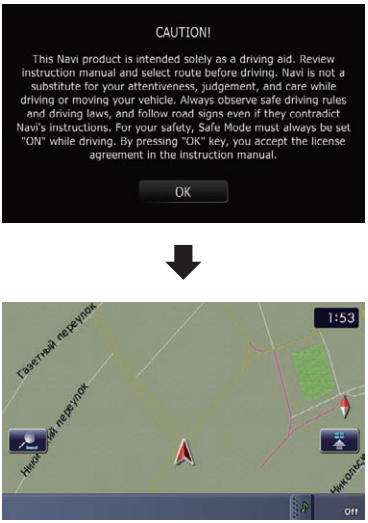
1 Start the engine to boot up the system.
After a short pause, the splash screen comes on for a few seconds.

2 Touch the language that you want to use on the screen.

3 Touch the language that you want to use for the voice guidance.

The navigation system will now restart.

4 Read the disclaimer carefully, checking its details, and then touch [OK] if you agree to the conditions.


CAUTION!
This Navi product is intended solely as a driving aid. Review instruction manual and select route before driving. Navi is not a substitute for your attentiveness, judgement, and care while driving or moving your vehicle. Always observe safe driving rules and driving laws, and follow road signs even if they contradict Navi's instructions. For your safety, Safe Mode must always be set "ON" while driving. By pressing "OK" key, you accept the license agreement in the instruction manual.
OK
1:53
Off

Regular startup

- **Start the engine to boot up the system.**

After a short pause, the splash screen comes on for a few seconds.

- ❒ The screen shown will differ depending on the previous conditions.
- ❒ When there is no route, the disclaimer appears after the navigation system reboots. Read the disclaimer carefully, checking its details, and then touch [**OK**] if you agree to the conditions.
- ❒ If the anti-theft function is activated, you must enter your password. Read the disclaimer carefully, checking its details, and then touch [**OK**] if you agree to the conditions.

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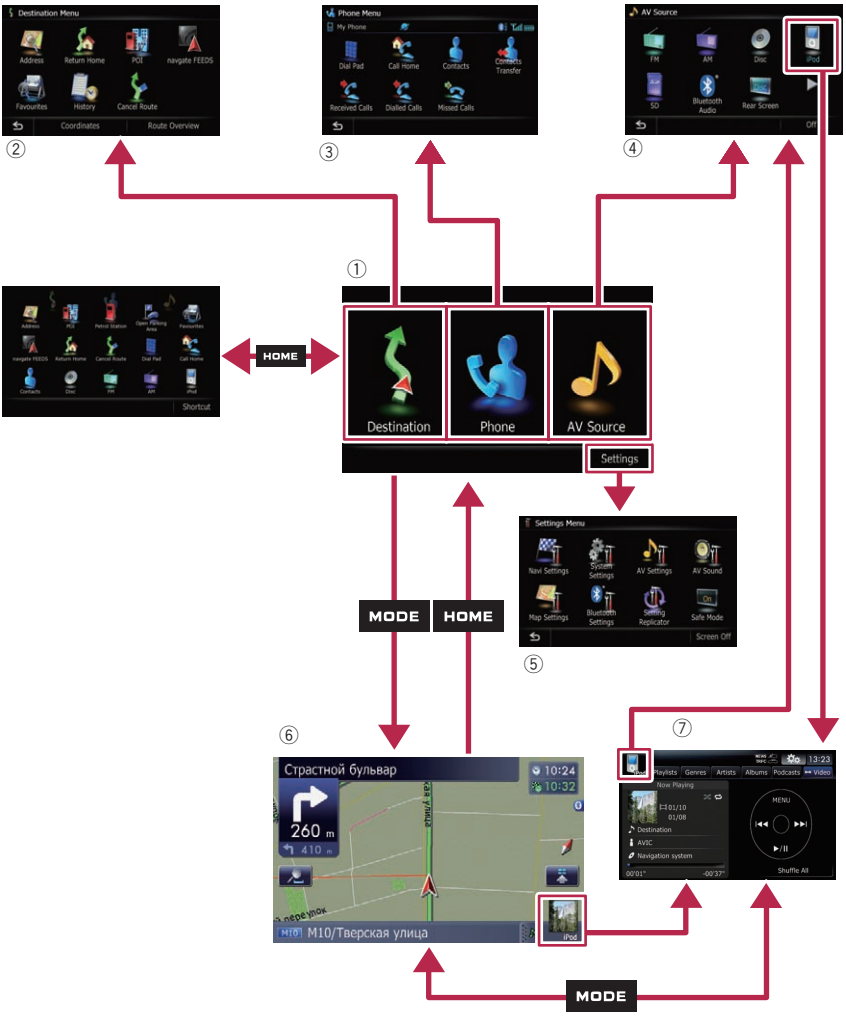
Screen switching overview



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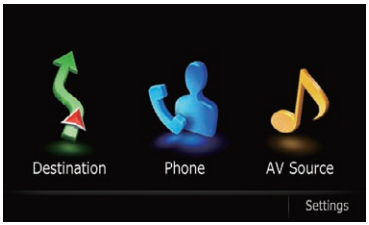
What you can do on each menu

① **Top Menu**
Press the **HOME** button to display the "**Top Menu**".
This is the starting menu to access the desired screens and operate the various functions. There are two types of the "**Top Menu**".



Classic Menu

Shortcut Menu

❒ In this manual, "Classic Menu" will be referred to as "**Top Menu**".

② **Destination Menu**
You can search for your destination on this menu. You can also check or cancel your set route from this menu.

③ **Phone Menu**
You can access the screen that is related to hands-free phoning to see call histories and change the settings on the Bluetooth wireless technology connection.

④ **AV Source** menu
You can access the screen for selecting the audio and visual source to play.

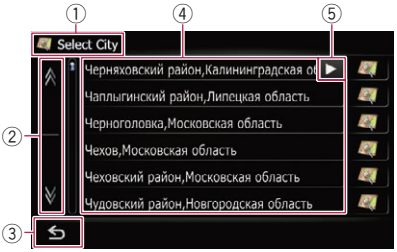
⑤ **Settings Menu**
You can access the screen to customise settings.

⑥ **Map screen**
Press the **MODE** button to display the navigation map screen.

⑦ **AV operation screen**
This is the screen that normally appears when you play the AV source. Touching the icon on the top left corner displays the "**AV Source**" menu.

❒ To return to the previous screen, touch .

Operating list screens (e.g. city list)



① **Screen title**

②

Touching or on the scroll bar scrolls through the list and allows you to view the remaining items.

③

Returns the previous screen.

④ **Listed items**
Touching an item on the list allows you to narrow down the options and proceed to the next operation.

⑤

If all of the characters cannot be displayed within the displayed area, touching the key to the right of the item allows you to see remaining characters.

Shortcut menu

Registering your favourite menu items in shortcuts allows you to quickly jump to the registered menu screen by a simple touch on the "Shortcut Menu" screen.

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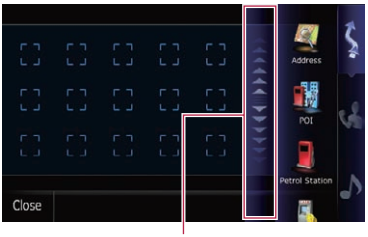
Selecting the Shortcut

❒ Up to 15 menu items can be registered in shortcuts.

1 Press the HOME button repeatedly to display the "Shortcut Menu" screen.

2 Touch [Shortcut].
The Short-Cut Selection screen appears.

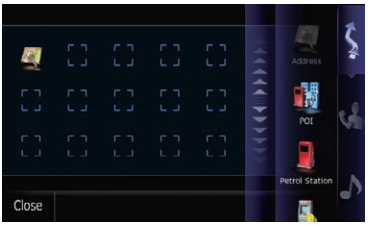


Scroll bar

3 Touch the tab on the right edge or scroll the bar to display the icon that you want to set to shortcut.

4 Touch and hold the icon that you want to add to shortcut.

5 Move the icon to the left side of the screen, and then release it.
The selected item is added to shortcut.



Cancelling the shortcut

1 Touch and hold the icon that you want to cancel the shortcut.

2 Move the icon to the right side of the screen, and then release it. ■

Displaying the rear view camera image

Rear view image is displayed on the left-hand side of the screen, while the map of your surroundings is indicated on the right.

➲ For details, refer to *Setting for rear view camera* on page 71.

1 Press the HOME button to display the "Top Menu".

2 Touch [Settings].
The "**Settings Menu**" screen appears.

3 Touch [System Settings].
The "**System Settings**" screen appears.

4 Touch [Back Camera].
The "**Back Camera Settings**" screen appears.

5 Touch [Camera] to turn it [On]. ■

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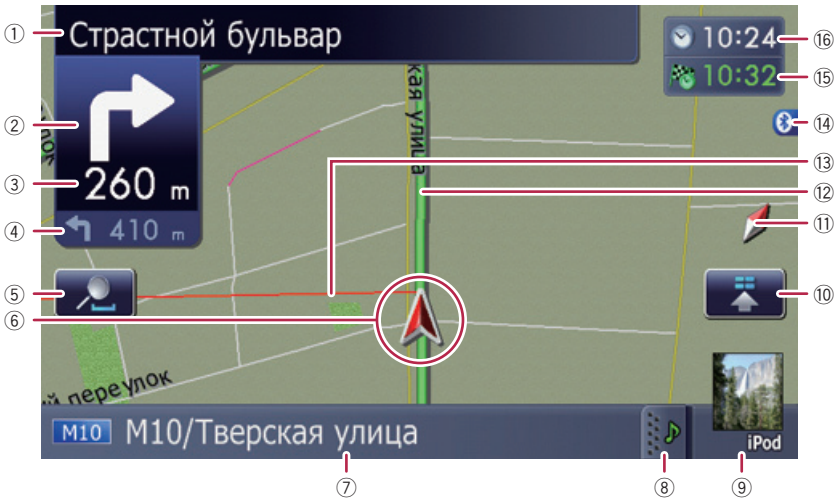
Most of the information provided by your navigation system can be seen on the map. You need to become familiar with how information appears on the map.

How to read the map screen

This example shows an example of a 2D map screen.



❒ Information with the mark (*) appears only when the route is set.
❒ Depending on the conditions and settings, some items may not be displayed.

① **Name of the street to be used (or next guidance point)***

② **Next direction of travel***
When you approach a guidance point, this item appears.
As you get closer to the guidance point, the colour of the item changes to green.
❒ Touching this item enables you to hear the next guidance again.
❒ You can select between display and non-display.
➲ For details, refer to *Displaying manoeuvres* on page 27.

③ **Distance to the guidance point***
Shows the distance to the next guidance point.
❒ Touching this item enables you to hear the next guidance again.

④ **Second Manoeuvre Arrow***
Shows the turning direction after next and the distance to there.
➲ For details, refer to *Displaying manoeuvres* on page 27.

⑤ **Zoom in/Zoom out**
Touching displays touch panel keys for changing the map scale and the map orientation.

⑥ **Current position**
Indicates the current location of your vehicle. The apex of the triangular mark indicates your orientation and the display moves automatically as you drive.
❒ The apex of the triangular mark is the proper current position.

⑦ **Street name (or city name) that your vehicle is travelling along**

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➲ For details, refer to *Setting the current street name display* on page 26.

⑧ **Extension tab for the AV information bar**
Touching this tab opens the AV information bar and enables you to briefly view the current status on the AV source. Touching it again retracts the bar.

⑨ **Shortcut to the AV operation screen**
The **AV Source** currently selected is shown. Touching the indicator displays the AV operation screen of the current source directly.

❒ If you connect your iPod to this navigation system, the artwork for the album that is playing appears.

⑩ **Quick Access** icon
Displays **Quick Access** menu.

⑪ **Map orientation indicator**

- When "North up" is selected, N is displayed.
- When "Heading up" is selected, is displayed.

❒ The red arrow indicates north.

⑫ **Current route***
The route currently set is highlighted in bright colour on the map. If a waypoint is set on the route, the route after the next waypoint is highlighted in another colour.

⑬ **Direction line***
The direction towards your destination (next waypoint, or cursor) is indicated with a straight line.

⑭ **Bluetooth Connected icon**
This icon shows whether the device featuring Bluetooth technology is connected or not. You can select between display and non-display.

➲ For more details about "Selecting display or non-display for the **Bluetooth Connected** icon", refer to **Bluetooth Connected** on page 26.

⑮ **Multi-Info window**
Each touch of [**Multi-Info window**] changes the display information.

- **Distance to the destination (or distance to waypoint)***
- **Estimated time of arrival at your destination or waypoint***
  The estimated time of arrival is an ideal value calculated based on the value set for [**Speed**] and the actual driving speed. The estimated time of arrival is only a reference value, and does not guarantee arrival at that time.
- **Travel time to your destination or waypoint***

⑯ **Current time**

Meaning of guidance flags

: Destination
The checkered flag indicates your destination.

: Waypoint
The blue flags indicate your waypoints.

: Guidance point
The next guidance point (next turning point, etc.) is shown by a yellow flag.

Displaying the AV information bar

You can check the current status on the selected AV source.

● **Touch .**
AV information bar appears.

■ Touch the AV information bar.
The AV information bar is retracted.

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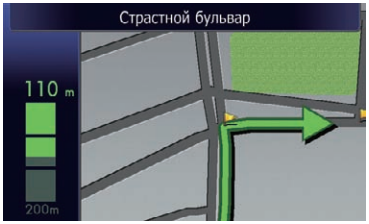
Enlarged map of the intersection

When "**Close Up View**" in the "**Map Settings**" screen is "**On**", an enlarged map of the intersection appears.

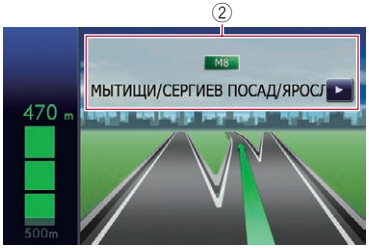


➲ For details, refer to *Setting "***Close Up View***"* on page 26.

Display during motorway driving

In certain locations of the motorway, lane information is available, indicating the recommended lane to be in to easily manoeuvre the next guidance.

While driving on the motorway, motorway exit numbers and motorway signs may be displayed when in the vicinity of interchanges and exits.



① **Lane information**

② **Motorway signs**
These show the road number and give directional information.

❒ If the data for these items is not contained in the built-in memory, the information is not available even if there are the signs on the actual road. ■

Operating the map screen

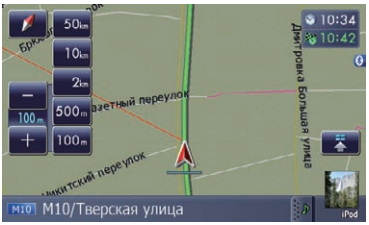
Changing the scale of the map

You can change the map scale between 25 metres and 2 000 kilometres (25 yard and 1 000 miles).

1 Display the map screen.

2 Touch on the map screen.

and with the map scale appear.



3 Touch or to change the map scale.

❒ If you do not operate the function for a few seconds, the display is automatically returned.

■ Touch the direct scale key to change the map to the selected scale directly.

Switching the map orientation

You can switch the vehicle's direction on the map between "Heading up" and "North up".

- Heading up:
  The map display always shows the vehicle's direction as proceeding toward the top of the screen.

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- North up:
  The map display always has north at the top of the screen.

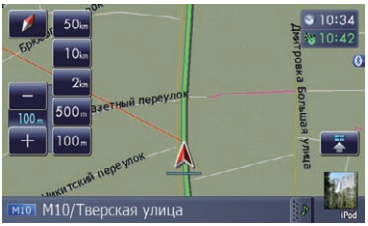
❒ The map orientation is fixed at “North up” in the following situation.
  — When the map scale is 50 kilometres (25 miles) or more.

❒ The map orientation is fixed at “Heading up” in the following situation.
  — When the 3D map screen is displayed.

1 Display the map screen.

2 Touch on the map screen.

or appears.



3 Touch or to switch the vehicle’s direction.

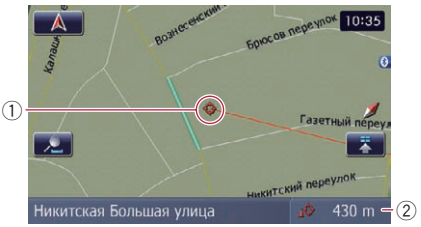
Each time you touch the key changes that setting.

❒ If you do not operate the function for a few seconds, the display is automatically returned.

Scrolling the map to the position you want to see

1 Display the map screen.

2 Touch and drag the map in the desired direction to scroll.



① Cursor
② Distance from the current position

Positioning the cursor to the desired location results in a brief informational overview about the location being displayed at the bottom of screen, with street name and other information for this location being shown. (The information shown varies depending on the position.)

❒ The scrolling increment depends on your dragging length.

▪ Touch .

The map returns to the current position.

❒ Pressing **MODE** button returns the map to the current position.

Quick Access

“**Quick Access**” allow you to perform various tasks, such as route calculation for the location indicated by the scroll cursor or registering a location in [**Favourites**], faster than using the navigation menu.

You can customise “**Quick Access**” displayed on screen. The “**Quick Access**” described here are prepared as the default setting.

➲ For details, refer to *Selecting “**Quick Access**”* on page 30.

❒ Items marked with an asterisk (*) cannot be removed from **Quick Access** menu.

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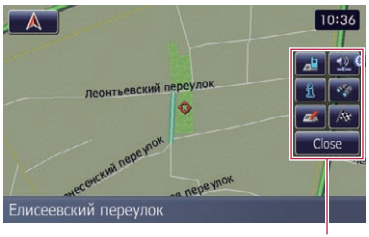
- **When the map is displayed, touch .**



Quick Access menu

: **Route Options***
Displayed when the map is not scrolled. This item can be selected only during route guidance.
You can modify the conditions for route calculation and recalculate the current route.

➲ For details, refer to *Modifying the route calculation conditions* on page 36.

: **Destination***
Displayed when the map is scrolled. Set the route to the place specified with the scroll cursor.

: **Registration**
Register information on the location indicated by the scroll cursor to "**Favourites**".

➲ For details, refer to *Registering a location by scroll mode* on page 45.

: **Vicinity Search**
Find POIs (Points Of Interest) in the vicinity of the scroll cursor.

➲ For details, refer to *Searching for a nearby POI* on page 42.

: **Overlay POI**
Displays icons for surrounding facilities (POI) on the map.

➲ For details, refer to *Displaying POI on the map* on page 27.

: **Volume**
Displays the "**Volume Settings**" screen.

➲ For more details about "**Volume**", refer to *Setting the Volume for Guidance and Phone* on page 70.

: **Contacts**
Displays the "**Contacts List**" screen.

➲ For details, refer to *Calling a number in the "Contacts List"* on page 55.

[**Close**]
Hides the **Quick Access** menu.

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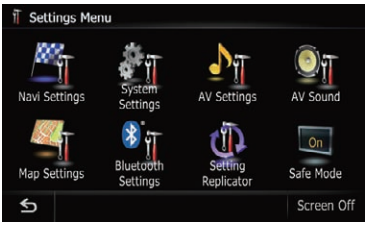
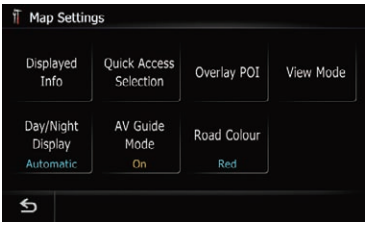
The general settings related with a map screen can be customised.
To customise the map screen, display the "**Map Settings**" screen.

1 Display the "Top Menu" screen.

2 Touch [Settings].
The "**Settings Menu**" screen appears.



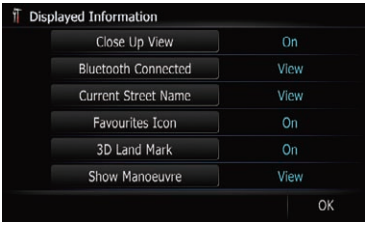
3 Touch [Map Settings].
The "**Map Settings**" screen appears.



Setting the Item on the Map Screen

1 Display the "Map Settings" screen.

2 Touch [Displayed Info].
The "**Displayed Information**" screen appears.



Setting "Close Up View"

This setting enables switching to an enlarged map around the point where your vehicle is approaching an intersection, entrance/exit of motorway or a junction.

- **Touch [Close Up View].**

Each time you touch the key changes that setting.

- [**On**] (default):
  Switches to an enlarged map.
  Displays the close up view with the 2D map.
- [**Off**]:
  Does not switch to an enlarged map.

Bluetooth Connected

Selects whether to display or hide the icon for current status of the phone connection via Bluetooth wireless technology.

- **Touch [Bluetooth Connected].**

Each time you touch the key changes that setting.

- [**View**] (default):
  Displays the **Bluetooth Connected** icon on the map.
- [**Hide**]:
  Hides the **Bluetooth Connected** icon on the map.

Setting the current street name display

Selects whether to display or hide the street name (or city name) that your vehicle is travelling along.

- **Touch [Current Street Name].**

Each time you touch the key changes that setting.

- [**View**] (default):
  Displays the street name (or city name) on the map.
- [**Hide**]:
  Hides the street name (or city name) on the map.

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Setting the Favourites icon display

You can select whether to display the "**Favourites**" icon on the map.

❒ **Favourites** icons are displayed when the map scale is 20 kilometres (10 miles) or less.

● **Touch [Favourites Icon].**

Each time you touch the key changes that setting.

- [**On**] (default):
  Displays the "**Favourites**" icon on the map.
- [**Off**]:
  Hides the "**Favourites**" icon on the map.

3D Land Mark

You can select whether to display the 3D Landmark on the map.

❒ 3D Landmark only appears when the view mode is [**3D View**] and the map scale is set to 200 m (0.25 mile) or lower.

❒ This setting functions only for European map data. The data is available on separately sold SD memory card.

● **Touch [3D Land Mark].**

Each time you touch the key changes that setting.

- [**On**] (default):
  Displays the 3D Landmark on the map.
- [**Off**]:
  Hides the 3D Landmark on the map.

Displaying manoeuvres

Selects whether to display or hide the next turn ahead of the vehicle on the map.

● **Touch [Show Manoeuvre].**

Each time you touch the key changes that setting.

- [**View**] (default):
  Displays the next turn ahead of the vehicle on the map.
- [**Hide**]:
  Hides the next turn ahead of the vehicle on the map.■

Displaying POI on the map

Displays icons for the surrounding facilities (POI) on the map.

❒ POI icons are not displayed when the map scale is 1 kilometres (0.75 mile) or more.

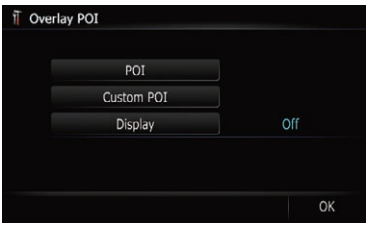
Displaying preinstalled POIs on the map

❒ You can select up to 10 items from the detailed category.

1 Display the "Map Settings" screen.

2 Touch [Overlay POI].

The "**Overlay POI**" screen appears.



3 Touch [Display] to turn it [On].

❒ If you do not want to display the POI icon on the map, touch [**Display**] to turn it [**Off**]. (Even if [**Display**] is turned [**Off**], the POI selection setting is retained.)

4 Touch [POI].

The "**Overlay POI (Main Category)**" screen appears.

5 Touch the category you want to display.

A list of subcategories under the selected main category appears.

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- Touch [**OK**].

Returns previous screen.

6 Touch the subcategory.

A red tick mark appears next to the selected category. To cancel the selection, touch the entry again.

- If you want to search with more detailed categories, touch [**Detail**].

Touch the item and touch [**OK**]. When only a few types of the detailed categories are selected, blue tick marks will appear.

❒ When subcategory is selected, [**Detail**] is not available.

7 Touch [OK].

Returns previous screen.

8 To finish the selection, touch [OK].

Displaying the customised POIs

Creating a customised POI is possible by using the utility programme "NavGate Feeds" which is available separately, on your PC. ("NavGate Feeds" will be available on our website.) Storing the customised POI properly and inserting the SD memory card enables the system to display the icons on the map screen.

❒ You can select up to 10 items from the detailed category.

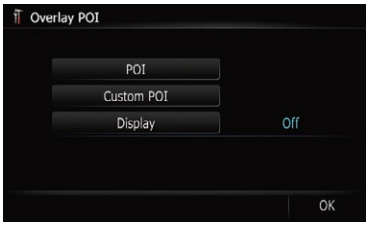
1 Insert an SD memory card into the SD card slot.

➲ For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 13.

2 Display the "Map Settings" screen.

3 Touch [Overlay POI].

The "**Overlay POI**" screen appears.



4 Touch [Display] to turn it [On].

❒ If you do not want to display the POI icon on the map, touch [**Display**] to turn it [**Off**]. (Even if [**Display**] is turned [**Off**], the POI selection setting is retained.)

5 Touch [Custom POI].

The list of POI categories appears.

6 Touch the category you want to display.

7 To finish the selection, touch [OK].

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Switching the view mode

Various types of screen displays can be selected for navigation guidance.

2D map screen

3D map screen

Street View

Rear View

1 Display the "Map Settings" screen.

2 Touch [View Mode].

The "**View Mode**" screen appears.

3 Touch the type that you want to set.

You can select the following types:

- [**2D View**] (default):
  Displays the 2D map screen.
- [**3D View**]:
  Displays the 3D map screen.
- [**Street View**]:
  Displays the "**Street View**" screen.
  - ❒ This type is available when the route is set.
- [**Rear View**]:
  Displays the rear view images.
  - ❒ This type is available when [**Back Camera Settings**] is set to [**On**].
  - ➲ For details, refer to *Setting for rear view camera* on page 71. ■

Setting the map colour change between day and night

To improve the visibility of the map during the evening, you can set the timing for changing the combination of the map colour.

1 Display the "Map Settings" screen.

2 Touch [Day/Night Display].

Each time you touch the key changes that setting.

- [**Automatic**] (default):
  You can change the colours of a map between daytime and nighttime according to whether the vehicle lights are On or Off.
- [**Day**]:
  The map is always displayed with daytime colours.

❒ To use this function with [**Automatic**], the Orange/white lead of the navigation system must be connected correctly. ■

Changing the road colour

You can set the road colour to bluish or reddish.

1 Display the "Map Settings" screen.

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2 Touch [Road Colour].

Each time you touch the key changes that setting.

- [**Red**] (default):
  Changes to red based road colours.
- [**Blue**]:
  Changes to blue based road colours.

Changing the setting of navigation interruption screen

Set whether to automatically switch to the navigation screen from the AV operation screen when your vehicle approaches a guidance point such as an intersection while displaying a screen other than navigation.

1 Display the "Map Settings" screen.

2 Touch [AV Guide Mode].

Each time you touch the key changes that setting.

- [**On**] (default):
  Switches from the audio operation screen to the navigation screen.
- [**Off**]:
  Does not switch the screen.

Selecting "Quick Access"

Select items to display on the map screen. In the list displayed on screen, the items with red tick marks are displayed on the map screen. Touch the item you want to display and then touch [**OK**] when a red check appears. You can select up to five items.

1 Display the "Map Settings" screen.

2 Touch [Quick Access Selection].

The "**Quick Access Selection**" screen appears.

3 Touch the item that you want to set in "Quick Access".

You can select the following items:

❒ Settings marked with an asterisk (*) show that these are default or factory settings.

- : **Registration***
  Register information on the location indicated by the scroll cursor to "**Favourites**".
  ➲ For details, refer to *Registering a location by scroll mode* on page 45.
- : **Vicinity Search***
  Find POIs (Points Of Interest) in the vicinity of the scroll cursor.
  ➲ For details, refer to *Searching for a nearby POI* on page 42.
- : **Overlay POI***
  Displays icon for surrounding facilities (POI) on the map.
  ➲ For details, refer to *Displaying POI on the map* on page 27.
- : **Volume***
  Displays the "**Volume Settings**" screen.
  ➲ For more details about "**Volume**", refer to *Setting the Volume for Guidance and Phone* on page 70.
- : **Contacts***
  Displays the "**Contacts List**" screen.
  ➲ For details, refer to *Calling a number in the "***Contacts List***"* on page 55.
- : **Whole Route Overview**
  Displays the entire route (currently set).
  ➲ For details, refer to Chapter 7.
- : **Day/Night Display**
  Switches **Day/Night Display** setting.
  ➲ For details, refer to *Setting the map colour change between day and night* on the previous page.
- : **Favourites Icon**
  Switches **Favourites Icon** setting.
  ➲ For details, refer to *Setting the* **Favourites** *icon display* on page 27.

4 To finish the setting, touch [OK].

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CAUTION

For safety reasons, these route-setting functions are not available while your vehicle is in motion. To enable these functions, you must stop in a safe place and put on the handbrake before setting your route.

❒ Some information regarding traffic regulations depends on the time when the route calculation is performed. Thus, the information may not correspond with a certain traffic regulation when your vehicle actually passes through the location in question. Also, the information on the traffic regulations provided will be for a passenger vehicle, and not for a truck or other delivery vehicles. Always follow the actual traffic regulations when driving.

The basic flow of creating your route

1 Park your vehicle in a safe place, and apply the handbrake.

2 Display the "Top Menu" screen.

3 Select the method of searching for your destination.

➲ For details, refer to *Searching for and selecting a location* on page 38.

4 Enter the information about your destination to calculate route.

5 Confirm the location on the map.

➲ For details, refer to *Checking the location on the map* on this page.

6 The navigation system calculates the route to your destination, and then shows the route on the map.

7 Check and decide the route.

➲ For details, refer to *Checking the calculated route* on this page.

8 Your navigation system sets the route to your destination, and the map of your surroundings appears.

9 After releasing the handbrake, drive in accordance with navigation guidance.

Checking the location on the map

After searching for the destination, the "Location confirmation screen" appears.

Location confirmation screen

● **Touch [OK].**

The destination is set, and then route calculation starts.

❒ If you press **MODE** button during route calculation, the calculation is cancelled and the map display appears.

▪ Touch [**Scroll**].

The map display changes to the scroll mode. You can fine-tune the location in the scroll mode, and then you can set the location as your destination or do various operations.

▪ Touch [**Waypoints**].

The location is added to the "**Waypoints List**" screen.

❒ If a destination is not set, [**Waypoints**] is not available.

Checking the calculated route

After the destination is set, route calculation starts.

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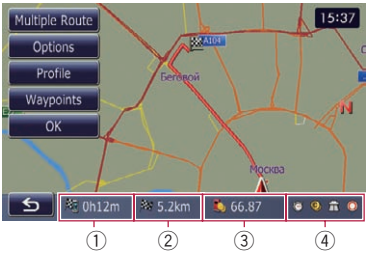
When the route calculation is completed, “Route confirmation screen” appears.

Route confirmation screen



① Travel time to your destination
② Distance to the destination
③ Estimated fuel cost to your destination
➲ For details, refer to *Inputting the fuel consumption information for calculating the fuel cost* on page 65.
④ Route calculation condition

● **Touch [OK].**
Sets the displayed route as your route, and starts the route guidance.
▪ Touch .
The message confirming whether to cancel the calculated route appears.
Touch [**Yes**] to cancel the calculated route, and then the map screen appears.

Display multiple routes

You can select a desired route from multiple route options. Calculated routes are shown in different colours.
❒ If you set waypoints, you cannot use the multiple route option.

1 Touch [Multiple Route].
The “Multiple Route Option” screen appears.

2 Touch 1 to 6.
Another route is displayed.

3 Touch [OK].
“Route confirmation screen” appears.

Modifying the route calculation conditions

You can modify the conditions for route calculation and recalculate the current route.

1 Touch [Options] on the “Route confirmation screen”.
The “**Route Options**” screen appears.

2 Touch the desired items to change the route calculation conditions and then touch [OK].
The route is recalculated, and “Route confirmation screen” appears.

Items that users can operate

Settings marked with an asterisk (*) show that these are default or factory settings.

Route Condition
This setting controls how the route should be calculated by taking into account the time or the distance or the main road.
Determines which condition takes priority for route calculation.
[Fast]*:
Calculates a route with the shortest travel time to your destination as a priority.
[Short]:
Calculates a route with the shortest distance to your destination as a priority.
[Main Road]:
Calculate a route that passes major arterial road as a priority.

Avoid Toll Road
This setting controls whether toll roads (including toll areas) should be taken into account.

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[Off]*:
Calculate a route that may include toll roads (including toll areas).
[On]:
Calculate a route that avoids toll roads (including toll areas).
❒ The system may calculate a route that includes toll road even if [**On**] is selected.

Avoid Ferry
This setting controls whether ferry crossings should be taken into account.
[Off]*:
Calculate a route that may include ferries.
[On]:
Calculate a route that avoids ferries.
❒ The system may calculate a route that includes ferry way even if [**On**] is selected.

Avoid Motorway
This setting controls whether motorways may be included in the route calculation.
[Off]*:
Calculate a route that may include motorways.
[On]:
Calculate a route that avoids motorways.
❒ The system may calculate a route that includes motorway even if [**On**] is selected.

Time restrictions
This setting controls whether streets or bridges have traffic restrictions during a certain time should be taken into account.
❒ If you want to set your route to avoid opened bridges, select [**On**].
[On]*:
Calculate a route while avoiding streets or bridges with traffic restrictions during a certain time.
[Off]:
Calculate a route while ignoring traffic restrictions.
❒ The system may calculate a route that includes streets or bridges that are subject to traffic restrictions during a certain time even if [**On**] is selected.

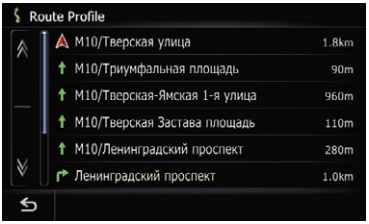
CAUTION
If the time difference is not set correctly, the navigation system cannot consider traffic regulations correctly. Set the time difference correctly (➲ Refer to *Setting the time difference* on page 69).

Learning Route
The system learns the travel history of your vehicle for each road.
This setting controls whether or not the travel history should be taken into account.
[On]*:
Calculate the route with the travel history taken into account.
[Off]:
Calculate the route without the travel history taken into account.
[Clear]:
Clear the current travel history.

Checking the current itinerary

You can check the route details.

● **Touch [Profile] on the "Route confirmation screen".**
The "**Route Profile**" screen appears.



Adding a waypoint

Up to 5 waypoints can be set, and waypoints and final destination can be sorted automatically or manually.
❒ When you set waypoints in the route to your destination, the route up to the next waypoint will appear in light green. The rest of the route will appear in light blue.
➲ For details concerning operations, refer to *Adding a waypoint* on page 35.

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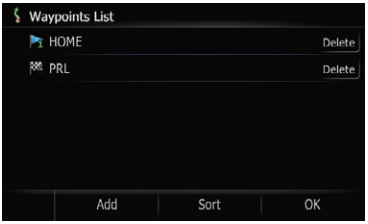
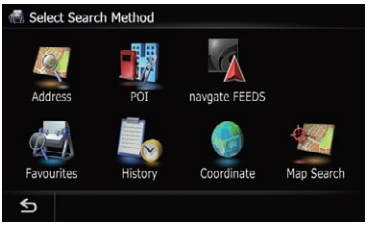
1 Touch [Waypoints] on the "Route confirmation screen".

The "**Waypoints List**" screen appears.



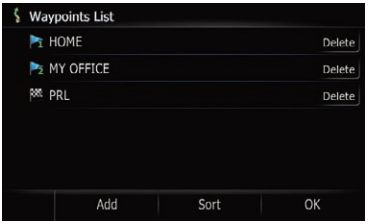
2 Touch [Add].

The "**Select Search Method**" screen appears.



3 Search for a location.

After searching for a point, display it on a map, then touch [**OK**] to add to the "**Waypoints List**" screen.



➲ For details, refer to Chapter 8.

4 Touch [OK] on the "Waypoints List" screen.

The route is recalculated, and "Route confirmation screen" appears.■

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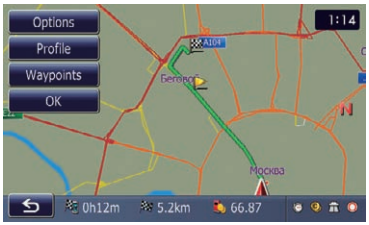
You can check the route details. You can also recalculate the route in different conditions.

1 Display the "Top Menu" screen.

2 Touch [Destination].
The "**Destination Menu**" screen appears.

3 Touch [Route Overview].
The "**Route Overview**" screen appears.



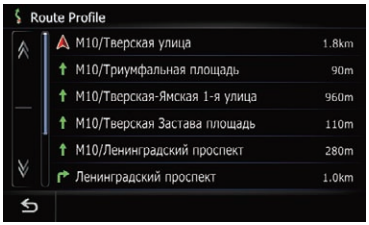
❒ [**Route Overview**] is active only when the route is set.

Checking the current itinerary

You can check the route details.

1 Display the "Route Overview" screen.

2 Touch [Profile].
The "**Route Profile**" screen appears.



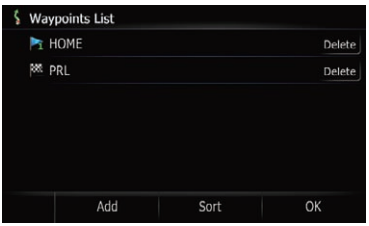
❒ When a long distance route is calculated, your navigation system may not be able to list all roads. (In this case, the remaining roads will be shown in the list as you drive on.)

Editing waypoints

You can edit waypoints (locations you want to visit on the way to your destination) and recalculate the route so that is passes through these locations.
To edit the waypoints, display the "**Waypoints List**" screen.

1 Display the "Route Overview" screen.

2 Touch [Waypoints].
The "**Waypoints List**" screen appears.

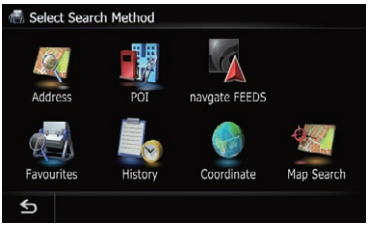


Adding a waypoint

Up to 5 waypoints can be set, and waypoints and final destination can be sorted automatically or manually.

1 Display the "Waypoints List" screen.

2 Touch [Add].
The "**Select Search Method**" screen appears.



3 Search for a location.
After searching for a point, display it on a map, then touch [**OK**] to add to the "**Waypoints List**" screen.

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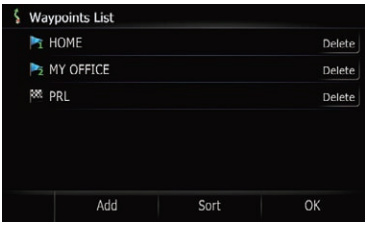


➲ For details, refer to Chapter 8.

4 Touch [OK] on the "Waypoints List" screen.
The route is recalculated, and "Route confirmation screen" appears.

5 Touch [OK].
The map of the current position appears.

Deleting a waypoint

You can delete waypoints from the route and then recalculate the route. (You can delete waypoints successively.)

1 Display the "Waypoints List" screen.

2 Touch [Delete] next to the waypoint that you want to delete.
The touched waypoint will be deleted from the list.

3 Touch [OK] on the "Waypoints List" screen.
The route is recalculated, and "Route confirmation screen" appears.

4 Touch [OK].
The map of the current position appears.

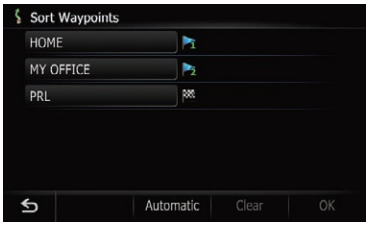
Sorting waypoints

You can sort waypoints and recalculate the route.

❒ You cannot sort waypoints that you have already passed.

1 Display the "Waypoints List" screen.

2 Touch [Sort].
The "**Sort Waypoints**" screen appears.



3 Touch the waypoint or destination.
Put them in the desired order.

- Touch [**Automatic**].

You can sort the destination and waypoints automatically. The system will show the nearest waypoint (distance in a straight line) from the current location as waypoint 1, and sort the other points (including your destination) in order of distance from the waypoint 1.

- Touch [**Clear**].

The sorting waypoints is cancelled.

4 Touch [OK].
The "**Waypoints List**" screen appears.

5 Touch [OK] on the "Waypoints List" screen.
The route is recalculated, and "Route confirmation screen" appears.

6 Touch [OK].
The map of the current position appears. ■

Modifying the route calculation conditions

The settings related to route calculation can be customised.

1 Display the "Route confirmation screen".

2 Touch [Options].
The "**Route Options**" screen appears.

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➲ For details concerning operations, refer to *Modifying the route calculation conditions* on page 32.■

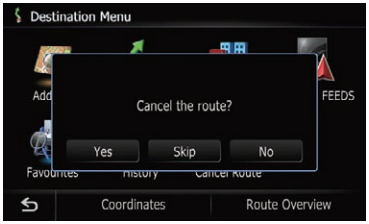
Cancelling the route guidance

If you no longer need to travel to your destination, follow the steps below to cancel the route guidance.

1 Display the "Destination Menu" screen.

2 Touch [Cancel Route].

A message confirming the cancellation of the current route appears.



3 Touch [Yes].

The current route is deleted, and a map of your surroundings reappears.

- Touch [**Skip**].

The next waypoint along the route can be skipped.

A new route to your destination through all remaining waypoints, except for the skipped waypoint, is calculated.

When the route calculation is completed, "Route confirmation screen" appears.

❒ [**Skip**] is available only when a waypoint is set.

- Touch [**No**].

Returns to the previous display without deleting the route.■

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CAUTION

For safety reasons, these route-setting functions are not available while your vehicle is in motion. To enable these functions, you must stop in a safe place and put on the handbrake before setting your route.

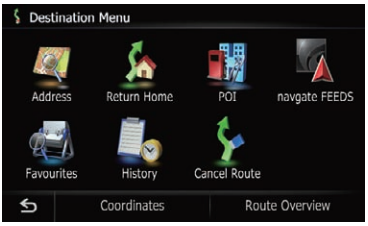
❒ Some information regarding traffic regulations depends on the time when the route calculation is performed. Thus, the information may not correspond with a certain traffic regulation when your vehicle actually passes through the location in question. Also, the information on the traffic regulations provided will be for a passenger vehicle, and not for a truck or other delivery vehicles. Always follow the actual traffic regulations when driving.

To search for a location, display the "**Destination Menu**" screen.

1 Press the HOME button to display the "Top Menu".

2 Touch [Destination].

The "**Destination Menu**" screen appears.



Searching for a location by address

The most frequently used function is [**Address**], in which the address is specified and the destination is searched.

You can select the method of searching for a location by address.

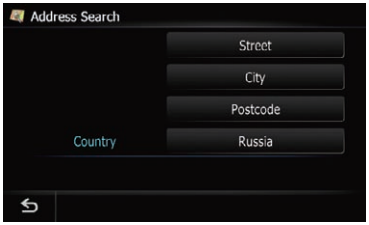
- Searching for a street name first
- Searching for a city name first
- Finding the location by specifying the postcode

To search for a location, display the "**Address Search**" screen.

1 Display the "Destination Menu" screen.

2 Touch [Address].

The "**Address Search**" screen appears.



3 Touch the key next to "Country" to select the country.

If the destination is in another country, this changes the country setting.

❒ Once the country has been selected, you only have to change countries when your destination is outside of the country you selected.

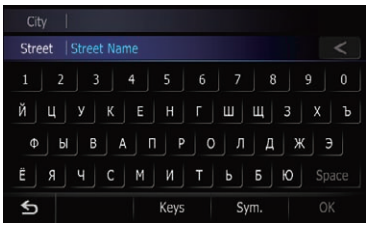
Searching for a street name first

❒ Depending on the search results, some steps may be skipped.

1 Display the "Address Search" screen.

2 Touch [Street].

The "**Street Name**" screen appears.



3 Enter the street name and then touch [OK].

The "**Street Selection**" screen appears.

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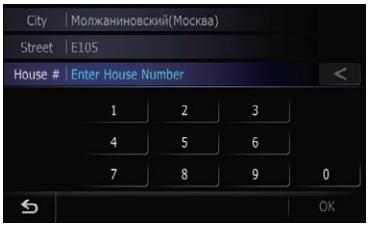
4 Touch the desired road.
The "**Enter City Name**" screen appears.

5 Enter the city name and then touch [OK].
The "**Select City**" screen appears.

6 Touch the desired city name.
The "**Enter House Number**" screen appears.



- Touch .

The representative location of the city appears on the map screen.

7 Enter the house number and then touch [OK].
The "**House Number Selection**" screen appears.

8 Touch the desired house number range.
The searched location appears on the map screen.

Searching for a city name first

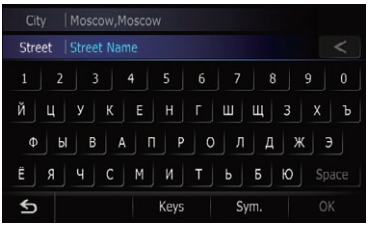
❒ Depending on the search results, some steps may be skipped.

1 Display the "Address Search" screen.

2 Touch [City].
The "**Enter City Name**" screen appears.

3 Enter the city name and then touch [OK].
The "**Select City**" screen appears.

4 Touch the desired city name.
The "**Street Name**" screen appears.

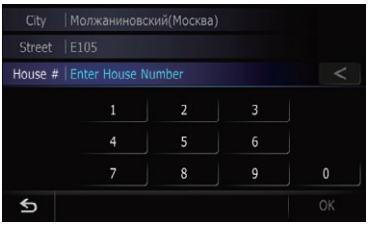


- Touch .

The representative location of the city appears on the map screen.

5 Enter the street name and then touch [OK].
The "**Street Selection**" screen appears.

6 Touch the desired road.
The "**Enter House Number**" screen appears.



7 Enter the house number and then touch [OK].
The "**House Number Selection**" screen appears.

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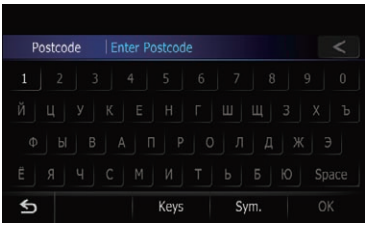
8 Touch the desired house number range.
The searched location appears on the map screen.

Finding your destination by specifying the postcode

If you know the postcode of your destination, you can use it to find your destination.
❒ Depending on the search results, some steps may be skipped.

1 Display the "Address Search" screen.

2 Touch [Postcode].
The "**Enter Postcode**" screen appears.



3 Input the postcode.
A list of cities with the specified postcode is shown.

4 Touch the city or area where your destination is located.
▪ Touch .
The representative location of the city appears on the map screen.

5 Enter the street name and then touch [OK].
The "**Street Selection**" screen appears.
If there is no house number, the searched location appears on the map screen.

6 Touch the desired road.
The "**Enter House Number**" screen appears.
If the selected street has only one matching location, the searched location appears on the map screen.

7 Enter the house number and then touch [OK].
The "**House Number Selection**" screen appears.

8 Touch the desired house number range.
The searched location appears on the map screen.

Searching for a name by entering multiple keywords

You can search for a name (such as a city name or a street name) by entering multiple keywords.
❒ Up to three keywords can be entered.
❒ Enter a space between keywords as you want to enter several ones.
The result of search depends on the number of the entered keywords.

Entering a keyword

All names containing the word beginning with entered keyword are displayed as a search result.

Entering two keywords

The names including the following two words below are displayed as a result:
- The word that matches with the first keyword you entered.
- The word beginning with the second keyword.

Entering three keywords

The names including the following two words below are displayed as a result:
- The words that match with both first and second keywords you entered.
- The word beginning with the third keyword.

e.g. Searching "**East West Street**".

Entered keywords	Search results
EAST W	"**East West Street**" is searchable.
WEST S	"**East West Street**" is searchable.
EAST WEST S	"**East West Street**" is searchable.

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WEST STREET E	"**East West Street**" is searchable.
W E S	"**East West Street**" is not searchable.
E WEST STREET	"**East West Street**" is not searchable.

■

Setting up a route to your home

If your home location is stored, the route home can be calculated by touching a single key.

1 Display the "Destination Menu" screen.

2 Touch [Return Home].
If the home location has not been stored yet, the confirmation message appears.
- Touch [**Register**].

The "**Set Home**" screen appears.
➲ For details, refer to *Registering your home* on page 67.■

Searching for Points of Interest (POI)

Information about various facilities (Points Of Interest - POI), such as petrol stations, car parks or restaurants, is available. You can search for a POI by selecting the category (or entering the POI Name).
To search for POIs, display the "**POI Search**" screen.

1 Display the "Destination Menu" screen.

2 Touch [POI].
The "**POI Search**" screen appears.

Searching for POIs by specifying a category first

You can search for POIs with one touch by touching the preset category.

1 Display the "POI Search" screen.

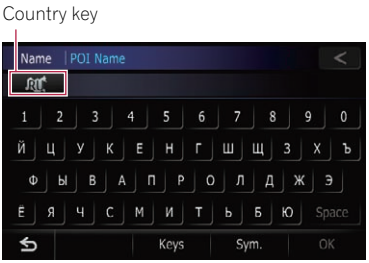
2 Touch the desired category.
The "**POI List**" screen appears.

3 Touch the POI you want.
The searched location appears on the map screen.

Searching for a POI directly from the name of the facilities

1 Display the "POI Search" screen.

2 Touch [Spell Name].
The "**POI Name**" screen appears.



3 Enter the POI name and then touch [OK].
The "**POI List**" screen appears.
- Touch the country key.

The "**Country List**" screen appears.

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If the destination is in another country, this changes the country setting.

❒ Once the country has been selected, you only have to change countries when your destination is outside of the country you selected.

4 Touch the POI you want.

The searched location appears on the map screen.

■ Touch [**Sort**].

Each time you touch [**Sort**] changes the sort order.

❒ Current order is displayed on the upper right of the screen.

- : Sorts the items in the list in order by distance from the vehicle position.
- : Sorts the items in the list alphabetically.

Searching for a nearby POI

You can search for POIs in your surroundings.

1 Display the "POI Search" screen.

2 Touch [Near Me].

POI's are divided into several categories.

3 Touch the category you want.

The "**POI List**" screen appears.

❒ If there are more detailed categories within the selected category, repeat this step as many times as necessary.

4 Touch the POI you want.

The searched location appears on the map screen.

Searching for POIs around the destination

❒ This function is available when the route is set.

1 Display the "POI Search" screen.

2 Touch [Near Destination].

POI's are divided into several categories.

3 Touch the category you want.

The "**POI List**" screen appears.

❒ If there are more detailed categories within the selected category, repeat this step as many times as necessary.

4 Touch the POI you want.

The searched location appears on the map screen.

Searching for POIs around the city

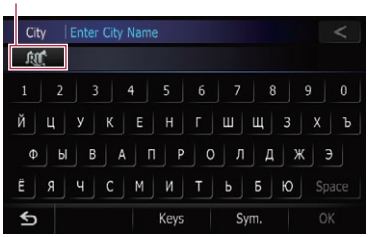
You can search for POIs around a specified city.

1 Display the "POI Search" screen.

2 Touch [Around City].

The "**Enter City Name**" screen appears.

Country key



3 Enter the city name and then touch [OK].

The "**Select City**" screen appears.

■ Touch the country key.

The "**Country List**" screen appears.

If the destination is in another country, this changes the country setting.

❒ Once the country has been selected, you only have to change countries when your destination is outside of the country you selected.

4 Touch the desired city name.

The "**POI List**" screen appears.

■ Touch .

The representative location of the city appears on the map screen.

5 Touch the category you want.

POI's are divided into several categories.

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6 Touch the POI you want.
The searched location appears on the map screen.

Selecting destination from "Favourites"

Storing locations you visit frequently saves time and effort.
Selecting an item from the list provides an easy way to specify the position.

- ❒ This function is not available when there is no registered location in "**Favourites**".
- ➲ For details, refer to *Registering a location into "**Favourites**"* on page 45.

1 Display the "Destination Menu" screen.

2 Touch [Favourites].
The "**Favourites**" screen appears.

3 Touch the entry you want.
The searched location appears on the map screen.

Searching for POIs by using the data on the SD memory card

Creating a customised POI is possible by using the utility programme "NavGate Feeds" which is available separately, on your PC. ("NavGate Feeds" will be available on our website.) Storing the customised POI properly and inserting the SD memory card enables the system to use the data for searches.

1 Insert an SD memory card into the SD card slot.

- ➲ For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 13.

2 Display the "Destination Menu" screen.

3 Touch [navgate FEEDS].
POI's are divided into several categories.

4 Touch the category you want.
The "**Select POI**" screen appears.

5 Touch the POI you want.
The searched location appears on the map screen.

Selecting a location you searched for recently

The places that you have searched for in the past are automatically stored in "**History**".

- ❒ If no location is stored in Destination History, you cannot select [**History**]. (If you perform a route calculation, you can select [**History**].)
- ❒ "**History**" can store up to 100 locations. If the entries reach the maximum, the new entry overwrites the oldest one.

1 Display the "Destination Menu" screen.

2 Touch [History].
The "**Destination History List**" screen appears.

3 Touch the entry you want.
The searched location appears on the map screen.

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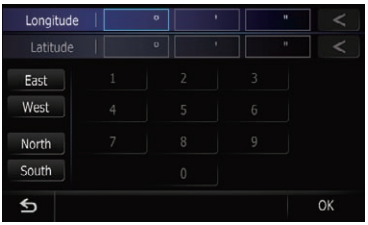
Searching for a location by coordinates

Entering a latitude and longitude pinpoints the location.

1 Display the "Destination Menu" screen.

2 Touch [Coordinates].
The "**Coordinate Input**" screen appears.



3 Touch [East] or [West], and then enter the longitude.
To enter W 50°1'5" for example, touch [**West**], [0], [5], [0], [0], [1], [0] and [5].

4 Touch [North] or [South], and then enter the latitude.
To enter N 5°1'5" for example, touch [**North**], [0], [5], [0], [1], [0] and [5].

5 Touch [OK].
The searched location appears on the map screen.

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Registering a location into "Favourites"

Registering a location by "Favourites"

Favourites can store up to 400 registered locations. These can include your home location, favourite places, and destinations you have already registered.

1 Display the "Destination Menu" screen.

2 Touch [Favourites].
The "**Favourites**" screen appears.

3 Touch [Add].
The "**Select Search Method**" screen appears.

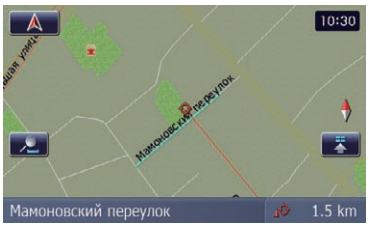
4 Search for a location.
➲ For details, refer to Chapter 8.

5 When the map of the location you want to register is displayed, touch [OK].
The location is registered, and then the "**Edit Favourite**" screen appears.
➲ For details, refer to *Editing the entry in* "**Favourites**" on this page.

6 Touch [OK].
The registration is completed.

Registering a location by scroll mode

1 Touch and drag the screen to scroll the map to the position that you want to register.



2 Touch to display the Quick Access menu.

3 Touch .
The location is registered, and then the "**Edit Favourite**" screen appears.
➲ For details, refer to *Editing the entry in* "**Favourites**" on this page.

4 Touch [OK].
The registration is completed.

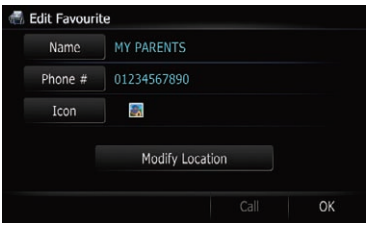
Editing registered locations

Editing the entry in "Favourites"

1 Display the "Destination Menu" screen.

2 Touch [Favourites].
The "**Favourites**" screen appears.

3 Touch next to the location that you want to edit.
The "**Edit Favourite**" screen appears.



4 Touch [Name].
You can enter the desired name.
❒ Up to 17 characters can be input for the name.
■ Touch [**Phone #**].
You can edit the registered phone number. To dial the number, touch [**Call**].
■ Touch [**Icon**].
The symbol displayed on the map and "**Favourites**".
■ Touch [**Modify Location**].
You can change the registered location by scrolling the map.

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Editing your home

When you have already registered your home, you can edit the information of your home.

1 Display the "Destination Menu" screen.

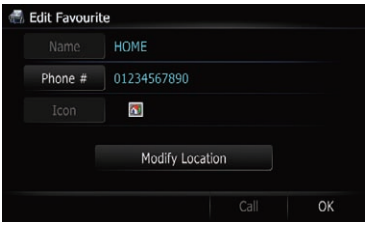
2 Touch [Favourites].

The "**Favourites**" screen appears.

❒ Home location is displayed on the top of the list.

3 Touch next to the home location.

The "**Edit Favourite**" screen appears.



■ Touch [**Phone #**].

You can edit the registered phone number. To dial the number, touch [**Call**].

■ Touch [**Modify Location**].

You can change the registered location by scrolling the map.

4 Touch [OK].

The registration is completed.

Sorting the entry in "Favourites"

1 Display the "Destination Menu" screen.

2 Touch [Favourites].

The "**Favourites**" screen appears.

3 Touch [Sort].

Each time you touch [**Sort**] changes the sort order.

❒ Current order is displayed on the upper right of the screen.

- : Sorts the items in the list in order by distance from the vehicle position.
- : Sorts the items in the list alphabetically.
- : Sorts the items in the list in order of the recently used items.

Deleting the entry in "Favourites"

1 Display the "Destination Menu" screen.

2 Touch [Favourites].

The "**Favourites**" screen appears.

3 Touch [Delete].

The "**Delete from Favourites**" screen appears.

4 Select the location you want to delete.

A tick mark appears by the selected location.

■ Touch [**All**].

Selects all entries.

■ Touch [**None**].

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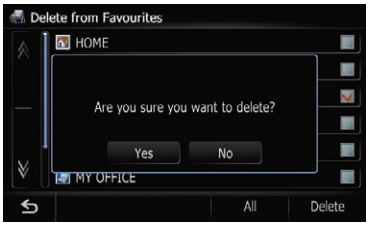
Displayed when all locations are selected. Cancels all selected locations.

5 Touch [Delete].
A message will appear asking you to confirm the deletion.



6 Touch [Yes].
The data you selected is deleted.
- Touch [**No**].

Cancels the deletion.

Exporting and importing the entry in "Favourites"

Exporting the entry in "Favourites"

Exporting the "**Favourites**" data to an SD memory card for editing is possible by using the utility programme "NavGate Feeds" which is available separately, on your PC.

❒ If there is a previous data in the SD memory card, the data is overwritten with new data when current data is exported.

1 Insert an SD memory card into the SD card slot.

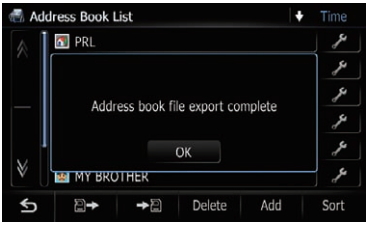
➲ For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 13.

2 Display the "Destination Menu" screen.

3 Touch [Favourites].
The "**Favourites**" screen appears.

4 Touch .
Exporting the data starts.

After exporting the data is finished, the following message appears.



5 Touch [OK].
The "**Favourites**" screen appears.

Importing "Favourites" edited on "NavGate Feeds"

You can import the locations that you have edited on the utility programme "NavGate Feeds" which is available separately to "**Favourites**".

❒ When a location that is already registered in "**Favourites**" is imported, the location is overwritten.

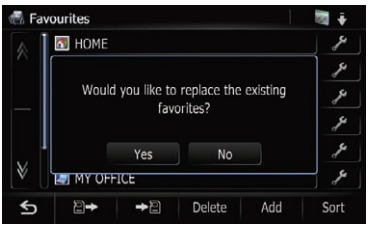
1 Insert an SD memory card into the SD card slot.

➲ For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 13.

2 Display the "Destination Menu" screen.

3 Touch [Favourites].
The "**Favourites**" screen appears.

4 Touch .
The following message appears.



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5 Touch [Yes].
Data import starts.
After importing the data is finished, the "**Favourites**" screen appears.

6 Touch [Yes].
The data you selected is deleted.
- Touch [**No**].

Cancels the deletion.

Deleting an entry in "History"

Items in **History** can be deleted. All entries in **History** can be deleted at once.

1 Display the "Destination Menu" screen.

2 Touch [History].
The "**Destination History List**" screen appears.

3 Touch [Delete].
The "**Delete from History**" screen appears.

4 Select the location you want to delete.
A tick mark appears by the selected location.

- Touch [**All**].

Selects all entries.
- Touch [**None**].

Displayed when all locations are selected. Cancels all selected locations.

5 Touch [Delete].
A message will appear asking you to confirm the deletion.

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If your devices feature Bluetooth® technology, this navigation system can be connected to your devices wirelessly. This section describes how to set up a Bluetooth connection.

For more information about the connectivity with the devices featuring Bluetooth wireless technology, refer to the information on our website.

Preparing communication devices

This navigation system has a built-in function to use devices featuring Bluetooth wireless technology.

➲ For details, refer to *Notes for hands-free phoning* on page 62.

You can register and use devices that feature the following profiles with this navigation system.

- HFP (Hands Free Profile)
- A2DP (Advanced Audio Distribution Profile)

❒ When the navigation system is turned off, the Bluetooth connection is also disconnected. When the system restarts, the system automatically attempts to reconnect the previously-connected mobile phone. Even when the connection is severed for some reason, the system automatically reconnects the specified mobile phone (except when the connection is severed due to mobile phone operation). ■

Registering your Bluetooth devices

You need to register your devices featuring Bluetooth wireless technology when you connect it for the first time. A total of 5 devices can be registered. Three registration methods are available:

- Searching for nearby Bluetooth devices
- Searching for a specified Bluetooth device
- Pairing from your Bluetooth devices

❒ If you try to register more than 5 devices, the system will ask you to select one of the registered devices to delete.

➲ For details, refer to *Deleting a registered device* on page 52.

To register your Bluetooth devices, display the "**Bluetooth Settings**" screen.

1 Press the HOME button to display the "Top Menu".

2 Touch [Settings].

The "**Settings Menu**" screen appears.

3 Touch [Bluetooth Settings].

The "**Bluetooth Settings**" screen appears.

Searching for nearby Bluetooth devices

The system searches for available Bluetooth devices near the navigation system, displays them in a list, and registers them for connection.

1 Activate the Bluetooth wireless technology on your devices.

For some Bluetooth devices, no specific action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.

2 Display the "Bluetooth Settings" screen.

3 Touch [Registration].

The "**Nearby Device List**" screen appears.

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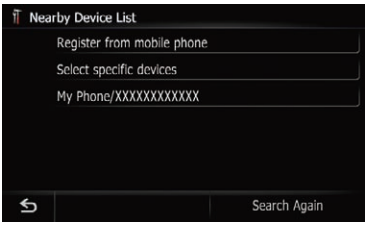
The system searches for devices featuring Bluetooth technology that are waiting for the connection and displays them in the list if the device has found.

- ❒ Up to 30 devices will be listed in the order that the devices are found.

4 Wait until your Bluetooth device appears in the list.



- ❒ If you cannot find the Bluetooth device that you want to connect, check that the device is waiting for the Bluetooth wireless technology connection.

5 Touch the Bluetooth device name you want to register.

The message "**Please follow the instructions on your mobile phone.**" appears.

6 Enter the PIN code (the default PIN code is "1111") using the Bluetooth device.

The device is registered in the navigation system.

After the device is successfully registered, the Bluetooth connection is established from the navigation system.

- ❒ If the registered device features HFP, the hands-free connection is made.
- ❒ If the registered device features A2DP, Bluetooth Audio connection is made.
- ❒ If the registered device features both HFP and A2DP, the hands-free connection is made and then the Bluetooth Audio connection is made.

Searching for a specified Bluetooth device

If you cannot connect your Bluetooth device using the nearby device search and [**Register from mobile phone**], try this method if your Bluetooth device is found in the list.

1 Activate the Bluetooth wireless technology on your devices.

For some Bluetooth devices, no specific action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.

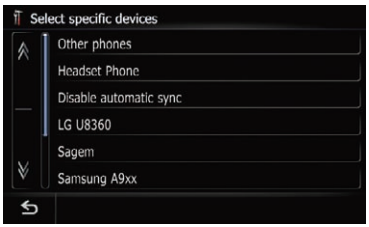
2 Display the "Bluetooth Settings" screen.

3 Touch [Registration].

The "**Nearby Device List**" screen appears.

4 Touch [Select specific devices].

The "**Select specific devices**" screen appears.



5 Touch the model name of the Bluetooth device to be connected.

The system searches for devices featuring Bluetooth technology that are waiting for the connection and displays them in the list if the device has found.

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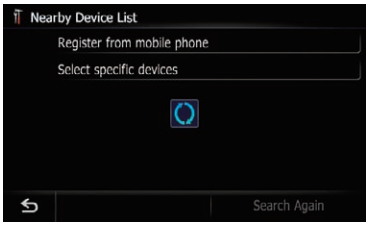
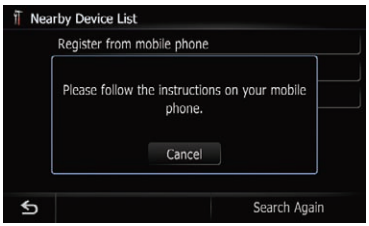


❒ If you cannot find the desired model name on the list, touch [**Other phones**] to search the devices available nearby.

6 Touch the Bluetooth device name you want to register.
The message "**Please follow the instructions on your mobile phone.**" appears.



7 Enter the PIN code (the default PIN code is "1111") using the Bluetooth device.
The device is registered in the navigation system.
After the device is successfully registered, the Bluetooth connection is established from the navigation system.

❒ If the registered device features HFP, the hands-free connection is made.
❒ If the registered device features A2DP, Bluetooth Audio connection is made.
❒ If the registered device features both HFP and A2DP, the hands-free connection is made and then the Bluetooth Audio connection is made.

Pairing from your Bluetooth devices

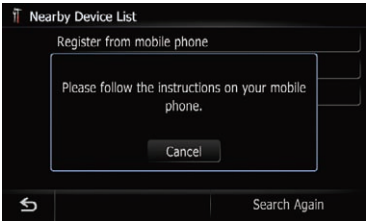
You can register the Bluetooth device by setting the navigation system to standby mode and requesting connection from the Bluetooth device.

1 Activate the Bluetooth wireless technology on your devices.
For some Bluetooth devices, no specific action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.

2 Display the "Bluetooth Settings" screen.

3 Touch [Registration].
The "**Nearby Device List**" screen appears.

4 Touch [Register from mobile phone].
The navigation system waits for a Bluetooth wireless technology connection.



5 Register the navigation system on Bluetooth device.
If your device asks you to enter a password, enter the PIN code (password) of the navigation system.
When the device is successfully registered, the connection settings are made from the device.

❒ If registration fails repeat the procedure from the beginning.

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Deleting a registered device

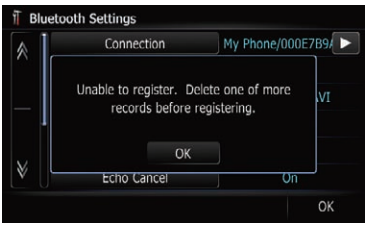
When you have already registered 5 Bluetooth devices and you want to add another one, you must first delete one of the registered devices.

❒ If a registered phone is deleted, all the phone book entries and call history lists that correspond to the phone will be also cleared.

1 Display the "Bluetooth Settings" screen.

2 Touch [Registration].

The following message appears.



3 Touch [OK].

The "**Delete from Connection List**" screen appears.

4 Touch the Bluetooth device name that you want to delete.

The registration is cancelled. ■

Connecting a registered Bluetooth device

The navigation system automatically connects the Bluetooth device selected as the target of connection. However, connect the Bluetooth device manually in the following cases:

- Two or more Bluetooth devices are registered, and you want to manually select the device to be used.
- You want to reconnect a disconnected Bluetooth device.
- Connection cannot be established automatically for some reason.

If you start connection manually, carry out the following procedure. You can also connect the Bluetooth device by having the navigation system detect it automatically.

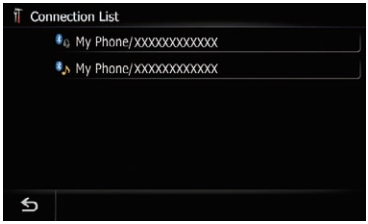
1 Activate the Bluetooth wireless technology on your devices.

For some Bluetooth devices, no specific action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.

2 Display the "Bluetooth Settings" screen.

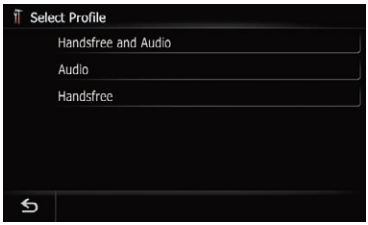
3 Touch [Connection].

The "**Connection List**" screen appears.



4 Touch the name of the device that you want to connect.

The "**Select Profile**" screen appears.



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5 Touch the profile that you want to connect.

You can select the following profiles:

- [**Handsfree and Audio**]:
  Connects the device as the hands-free phone and the Bluetooth audio player.
- [**Audio**]:
  Connects the device as Bluetooth audio player.
- [**Handsfree**]:
  Connects the device as the hands-free phone.

Connection starts.

When a connection is successfully established, a connection complete message appears, the screen returns to the map screen by touching [**OK**].

- ❒ To cancel the connection to your device, touch [**Cancel**].
- ❒ The selected device is set for priority connecting.
- ❒ If connection fails, check whether your device is waiting for a connection and then retry. ■

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CAUTION
For your safety, avoid talking on the phone as much as possible while driving.

If your mobile phone features Bluetooth® technology, this navigation system can be connected to your mobile phone wirelessly. Using this hands-free function, you can operate the navigation system to make or receive phone calls. You can also transfer the phone book data stored in your mobile phone to the navigation system. This section describes how to set up a Bluetooth connection and how to operate a mobile phone featuring Bluetooth technology on the navigation system.

For more information about the connectivity with the mobile phone featuring Bluetooth wireless technology, refer to the information on our website.

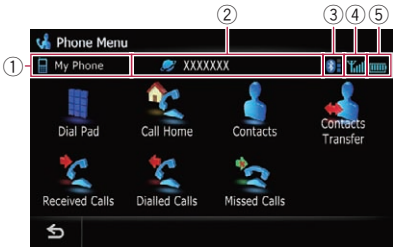
Displaying the Phone Menu

Use the "**Phone Menu**" if you connect the mobile phone to the navigation system for utilisation.

➲ For more details of the operation, refer to *Registering and connecting the Bluetooth device* on page 49.

1 Press the HOME button to display the "Top Menu".

2 Touch [Phone].
The "**Phone Menu**" screen appears.



① : Name of connected mobile phone
② : Network name of the mobile phone company
③ : Strength of the Bluetooth connection between the navigation system and the device
④ : Reception status of the mobile phone
⑤ : Battery status of the mobile phone■

Making a phone call

You can make a phone call in many different ways.

Direct dialling

1 Display the "Phone Menu" screen.

2 Touch [Dial Pad].
The direct dial screen appears.

3 Touch the number keys to enter the phone number.
The phone number that was input is displayed.
And then [**OK**] is activated.
- Touch .

The input number is deleted a digit at a time from the end of the number. Continuing to press this deletes all of the digits.
- Touch .

Return to the previous screen.

4 Touch [OK] to make a call.
❒ To cancel the call after the system starts dialling, touch .

5 Touch to end the call.

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Making a call home easily

You can call home without taking the time to enter the phone number if the phone number has been registered.

1 Display the "Phone Menu" screen.

2 Touch [Call Home].

Dialling home starts.

❒ If you have not registered your home number, a message appears. Touch [**Register**] to start registration.

➲ For details, refer to *Registering your home* on page 67.

Calling a number in the "Contacts List"

After finding the entry you want to call in the "**Contacts List**" screen, you can select the number and make the call.

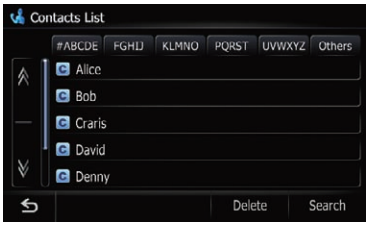
❒ Before using this function, you need to set the phone number from the phone book to "**Contacts**".

➲ For details, refer to *Transferring the phone book* on page 58.

1 Display the "Phone Menu" screen.

2 Touch [Contacts].

The "**Contacts List**" screen appears.



3 Switch the page of the list to display the desired entry.

If you touch an alphabet tab, you can jump to the first page of the contacts whose names start with that letter.

Alphabet tabs

Makes the screen jump to the beginning of the page including the entry whose names start with any of selected alphabets.

Touching [**#ABCDE**] also displays the page including the entry whose names start with primary symbols or numbers.

Touching [**Others**] displays the page including entries that are not assigned to any of the other tabs.

4 Touch the desired entry on the list to make a call.

❒ If the entry has multiple phone number data, the selection list appears.

▪ Touch [**Search**].

The "**Contacts Name Search**" screen appears. You can search by the names registered in the "**Contacts List**" screen.

▪ Touch [**Delete**].

The "**Delete from Contacts**" screen appears. If you select the entry you want to delete and touch [**Delete**], a message appears. If you touch [**OK**], the entry is deleted.

5 Touch to end the call.

Making a phone call using the received call history

The received call history saves 30 calls per registered mobile phone. If the number of calls exceeds 30, the oldest entry will be deleted.

1 Display the "Phone Menu" screen.

2 Touch [Received Calls].

The "**Received Calls List**" screen appears.

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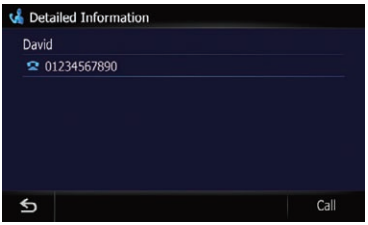
3 Touch an entry on the list.

Dialling starts.

- ❒ To cancel the call after the system starts dialling, touch .

- Touch [**Detail**].

The "**Detailed Information**" screen appears.



You can check the details of the party before making a phone call.

4 Touch to end the call.

Making a phone call using the dialled number history

The dialled number history saves 30 calls per registered mobile phone. If the entries exceed 30, the oldest one will be deleted.

1 Display the "Phone Menu" screen.

2 Touch [Dialled Calls].

The "**Dialled Calls List**" screen appears.

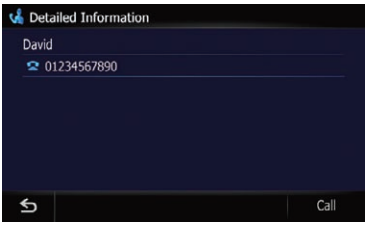
3 Touch an entry on the list.

Dialling starts.

- ❒ To cancel the call after the system starts dialling, touch .

- Touch [**Detail**].

The "**Detailed Information**" screen appears.



You can check the details of the party before making a phone call.

4 Touch to end the call.

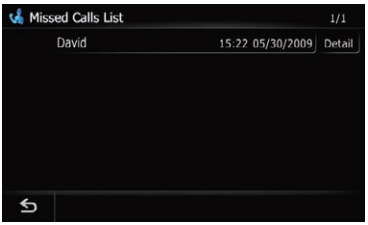
Making a phone call using missed call history

The missed call history saves 30 calls per registered mobile phone. If the number of calls exceeds 30, the oldest entry will be deleted.

1 Display the "Phone Menu" screen.

2 Touch [Missed Calls].

The "**Missed Calls List**" screen appears.



3 Touch an entry on the list.

Dialling starts.

- ❒ To cancel the call after the system starts dialling, touch .

- Touch [**Detail**].

The "**Detailed Information**" screen appears.

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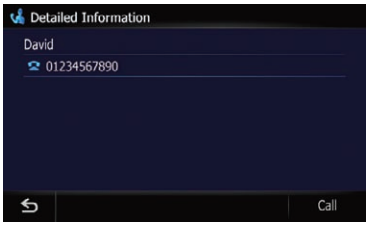

You can check the details of the party before making a phone call.

4 Touch to end the call.

Dialling the entry in the "Favourites"

You can make a call to the entry registered in the "**Favourites**".

1 Display the "Destination Menu" screen.

2 Touch [Favourites].
The "**Favourites**" screen appears.

3 Touch next to the location that you want to make a call.
The "**Edit Favourite**" screen appears.

4 Touch [Call] to make a call.
To cancel the call after the system starts dialling, touch .

5 Touch to end the call.

Dialling a facility's phone number

You can make a call to facilities with phone number data.

❒ You cannot make a call to locations or POIs that have no phone number data.

1 Display the "Destination Menu" screen.

2 Touch [POI].
The "**POI Search**" screen appears.

3 Search for the POI.
The "**POI List**" screen appears.

➲ For details concerning operations, refer to *Searching for Points of Interest (POI)* on page 41.

4 Touch next to the POI that you want to call.
The "**Detailed POI Information**" screen appears.

5 Touch [Call] to make a call.
To cancel the call after the system starts dialling, touch .

6 Touch to end the call.

Dialling from the map

You can make a call by selecting the icon of a registered location or a POI icon from the map screen.

❒ You cannot make a call to locations or POIs that have no phone number data.

1 Scroll the map, and place the cursor on an icon on the map.

2 Touch .
The "**Detailed POI Information**" screen appears.

3 Touch [Call] to make a call.
To cancel the call after the system starts dialling, touch .

4 Touch to end the call.

Receiving a phone call

You can perform hands-free answering by using the navigation system.

Answering an incoming call

The system informs you that it is receiving a call by displaying a message and producing a ring sound once.

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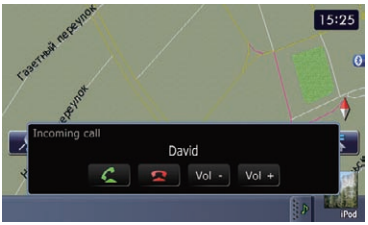
If [**Auto Answer Preference**] is set to [**Off**], answer the call manually. Answering is available if any screen is displayed, such as the map screen or the setting screen.

❒ You can set this navigation system to automatically answer incoming calls.
➲ For details, refer to *Answering a call automatically* on page 60.

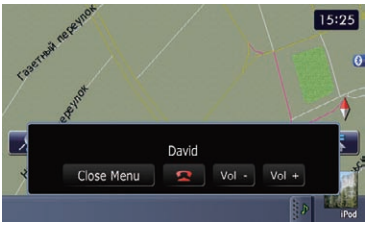
1 When a call comes in, the answering operation menu appears on the screen.



❒ The registered name appears if the phone number of the received call is already registered in "**Contacts**".
❒ Depending on the caller ID service, the phone number of the received call may not be displayed. "**Unknown**" appears instead.

2 To answer an incoming call, touch .

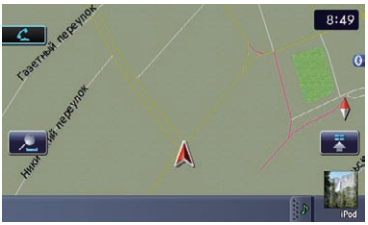
The operation menu during a call appears.



- Touch [**Vol –**] or [**Vol +**].

You can adjust volume when you are talking.

- Touch to reject an incoming call.
- If you touch [**Close Menu**], the menu is closed and appears.



To display the menu again, touch .

3 Touch to end the call.

The call ends.

❒ If the voice on the other end of the call is too quiet to hear, you can adjust the volume of the received voice.
➲ For more details about "**Volume**", refer to *Setting the Volume for Guidance and Phone* on page 70.
❒ You may hear a noise when you hang up the phone.

Rejecting an incoming call

You can reject an incoming call.

➲ For details, refer to *Setting the automatic rejection function* on page 61.

● **When a call comes in, touch .**

The call is rejected.

❒ The rejected call is recorded in the missed call history list.
➲ For details, refer to *Making a phone call using missed call history* on page 56.

Transferring the phone book

You can transfer the numbers in a registered user phone's address book into the **Contacts**.

❒ Depending on the mobile phone, "Phone Book" may be called a name such as "Contacts", "Business card" or something else.
❒ With some mobile phones, it may not be possible to transfer the entire phone book at once. In this case, transfer addresses one at a time from your phone book using your mobile phone.

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- The maximum 1 000 entries can be transferred per mobile phone. If the entries exceed 1 000, the extra entries will not be transferred. If more than one number is registered for one person, such as work place and home, each number is counted separately.
- Each entry can hold up to 5 phone numbers.
- Depending on the mobile phone that is connected to this navigation system via Bluetooth technology, this navigation system may not be able to display the phone book correctly. (Some characters may be garbled.)
- If the phone book in the mobile phone contains image data, the phone book may not be correctly transferred.
- The transferred data can not be edited on the navigation system.

1 Connect the mobile phone that has the phone book to transfer.

➲ For details, refer to *Connecting a registered Bluetooth device* on page 52.

2 Touch [Contacts Transfer] on the "Phone Menu" screen.

3 Check that the following screen is displayed, and operate your mobile phone to transfer the phone book entries.

After transferring the data is finished, a message asking whether you want to transfer more data appears.

4 Touch [No].

The transferred data is imported to the navigation system.

When the data is successfully imported, an import complete message is displayed and the "**Contacts List**" screen appears.

- It may take time depending on how many entries will be transferred.

- Touch [**Yes**].

Repeat the steps to transfer more data.

Setting the "Bluetooth Settings"

To set the "**Bluetooth Settings**", display the "**Bluetooth Settings**" screen.

1 Press the HOME button to display the "Top Menu".

2 Touch [Settings].

The "**Settings Menu**" screen appears.

3 Touch [Bluetooth Settings].

The "**Bluetooth Settings**" screen appears.

Editing the device name

You can change the device name to be displayed on your mobile phone. (Default is [**PIONEER NAVI**].)

1 Display the "Bluetooth Settings" screen.

2 Touch [Device Name].

The keyboard to enter the name appears.

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3 Touch < to delete the current name, and enter the new name by using the keyboard.

4 Touch [OK].
The name is changed.

❒ Up to 16 characters can be entered for a device name.

Editing the password

You can change the password to be used for authentication on your mobile phone. (Default is [**1111**].)

❒ Four to eight characters can be entered for a password.

1 Display the "Bluetooth Settings" screen.

2 Touch [Password].
The "**Set Password**" screen appears.

3 Touch any key to enter the password you want to set and then touch [OK].

Stopping Bluetooth wave transmission

You can stop transmission of electric waves by turning off the Bluetooth function. If you do not use the Bluetooth wireless technology, we recommend selecting [**Off**].

1 Display the "Bluetooth Settings" screen.

2 Touch [Bluetooth On/Off].
Touching [**Bluetooth On/Off**] switching between [**On**] and [**Off**].

Echo cancelling and noise reduction

When you are operating hands-free phoning in the vehicle, you may hear an undesirable echo. This function reduces the echo and noise while you are using hands-free phoning, and maintains a certain sound quality.

1 Display the "Bluetooth Settings" screen.

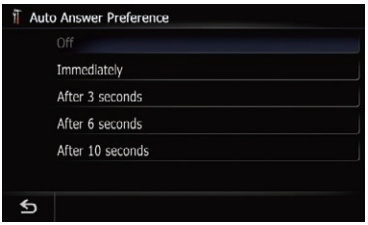
2 Touch [Echo Cancel].
Touching [**Echo Cancel**] switches between [**On**] and [**Off**].

Answering a call automatically

The navigation system automatically answers incoming calls to the mobile phone, so you can answer a call while driving without taking your hands off the steering wheel.

1 Display the "Bluetooth Settings" screen.

2 Touch [Auto Answer Preference].
The "**Auto Answer Preference**" screen appears.



3 Touch the desired option.

- [**Off**]: No automatic response. Respond manually
- [**Immediately**]: Answers immediately
- [**After 3 seconds**]: Answers after three seconds
- [**After 6 seconds**]: Answers after six seconds
- [**After 10 seconds**]: Answers after ten seconds

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Setting the automatic rejection function

If this function is on, the navigation system automatically rejects all incoming calls.

1 Display the "Bluetooth Settings" screen.

2 Touch [Refuse All Calls].

Touching [**Refuse All Calls**] switches between [**On**] and [**Off**].

- ❒ If both "**Refuse All Calls**" and "**Auto Answer Preference**" are activated, "**Refuse All Calls**" takes priority and all incoming calls are automatically rejected.
- ❒ If "**Refuse All Calls**" is set to [**On**], rejected incoming calls will not be stored in the missed call list.

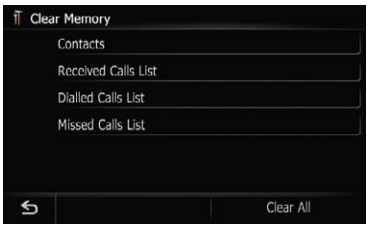
Clearing memory

You can clear the memory of each item that corresponds to the connected mobile phone: phone book, dialled/received/missed call history list and preset dials.

1 Display the "Bluetooth Settings" screen.

2 Touch [Clear Memory].

The "**Clear Memory**" screen appears.



On this screen, you can select the following items:

- **Contacts:**
  You can clear the registered phone book.
- **Received Calls List:**
  You can clear the received call history list.
- **Dialed Calls List:**
  You can clear the dialled call history list.
- **Missed Calls List:**
  You can clear the missed call history list.

■ Touch [**Clear All**].

It clears all the data that correspond to the connected mobile phone.

3 Touch [Yes].

Data on the selected item is cleared from this navigation system's memory.

- ❒ If you do not want to clear memory that you have selected, touch [**No**].

Updating the Bluetooth wireless technology software

Update files will be available for download in the future. You will be able to download the latest update from an appropriate website to your PC.

- ❒ Before you download the files and install the update, read through the instructions on the website. Follow the instructions on the website for steps until [**Firmware update**] becomes active.

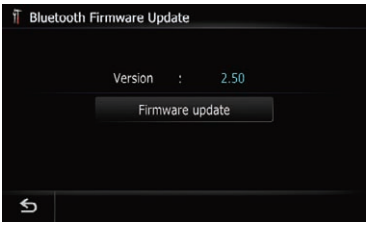
1 Insert an SD memory card into the SD card slot.

- ➲ For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 13.

2 Display the "Bluetooth Settings" screen.

3 Touch [Firmware update].

The current version is displayed.



4 Touch [Firmware update].

Update starts.■

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Notes for hands-free phoning

General notes

- Connection to all mobile phones featuring Bluetooth wireless technology is not guaranteed.
- The line-of-sight distance between this navigation system and your mobile phone must be 10 metres or less when sending and receiving voice and data via Bluetooth technology. However, the actual transmission distance may be shorter than the estimated distance, depending on the usage environment.
- With some mobile phones, the speakers of the system may not produce a ring sound.
- If private mode is selected on the mobile phone, hands-free phoning may be disabled.

Registration and connection

- Mobile phone operations vary depending on the type of mobile phone. Refer to the instruction manual that came with your mobile phone for detailed instructions.
- With mobile phones, phone book transfer may not work even though your phone is paired with the navigation system. In that case, disconnect your phone, perform pairing again from your phone to the navigation system, and then perform the phone book transfer.

Making and receiving calls

- You may hear a noise in the following situations:
  - — When you answer the phone by using the button on the phone.
  - — When the person on the other end of line hangs up the phone.
- If the person on the other end of the phone call cannot hear the conversation due to an echo, decrease the volume level for hands-free phoning. This may reduce the echo.
- With some mobile phones, even if you press the accept button on the mobile phone when a call comes in, hands-free phoning may not be performed.
- The registered name appears if the phone number of the received call is already registered in the phone book. When one phone number is registered under different names, the name that comes first alphabetically is displayed.
- If the phone number of the received call is not registered in the phone book, the phone number of the received call appears.

The received call history and the dialled number history

- Calls made or editing performed only on your mobile phone will not be reflected to the dialled number history or phone book in the navigation system.
- You cannot make a call to the entry of an unknown user (no phone number) in the received call history.
- If calls are made by operating your mobile phone, no history data will be recorded in the navigation system.

Phone book transfers

- If there are more than 1 000 phone book entries on your mobile phone, all entries may not be able to be downloaded completely.
- With some mobile phones, it may not be possible to transfer all items in the phone book at one time. In this case, transfer items one by one from your mobile phone.
- Depending on the mobile phone, this navigation system may not display the phone book correctly. (Some characters may be garbled, or first name and last name may be in reverse order.)
- If the phone book in the mobile phone contains image data, the phone book may not be transferred correctly. (Image data cannot be transferred from the mobile phone.)
- Depending on the mobile phone, phone book transfer may not be available. ■

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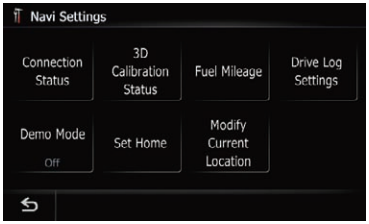
The options in the "Navi Settings" menu

Displaying the "Navi Settings" screen

1 Press the HOME button to display the "Top Menu".

2 Touch [Settings].
The "**Settings Menu**" screen appears.

3 Touch [Navi Settings].
The "**Navi Settings**" menu appears.

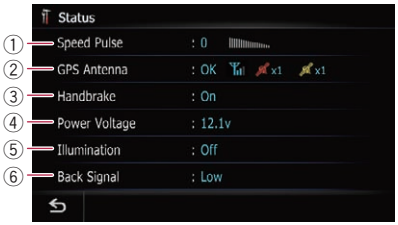


Checking the connections of leads

Check that leads are properly connected between the navigation system and the vehicle. Please also check whether they are connected in the correct positions.

1 Display the "Navi Settings" screen.

2 Touch [Connection Status].
The "**Status**" screen appears.



① **Speed Pulse**
The Speed Pulse value detected by the navigation system is shown. [0] is shown while the vehicle is stationary.

② **GPS Antenna**
Indicates the connection status of the GPS aerial, the reception sensitivity, and from how many satellites the signal is received.

Colour	Signal communication	Used in positioning
Orange	Yes	Yes
Yellow	Yes	No

- ❒ When the GPS aerial is connected to this navigation system, [**OK**] is displayed.
  When the GPS aerial is not connected to this navigation system, [**NOK**] is displayed.
- ❒ If reception is poor, please change the installation position of the GPS aerial.

③ **Handbrake**
When the handbrake is applied, [**On**] is displayed. When the handbrake is released, [**Off**] is displayed.

④ **Power Voltage**
The power voltage (reference value) provided from the vehicle battery to the navigation system is shown. If the voltage goes out of the range from 11 V to 15 V, check that power cable connection is correct.

⑤ **Illumination**
When the headlights or small lamps of a vehicle are on, [**On**] is displayed. When the small lamps of a vehicle are off, [**Off**] is displayed. (If the orange/white lead is not connected, [**Off**] appears.)

⑥ **Back Signal**
When the gear lever is shifted to "**R**", the signal switches to [**High**] or [**Low**]. (One of these is displayed depending on the vehicle.)

Checking sensor learning status and driving status

- ❒ The navigation system can automatically use its sensor memory based on the outer dimensions of the tyres.

1 Display the "Navi Settings" screen.

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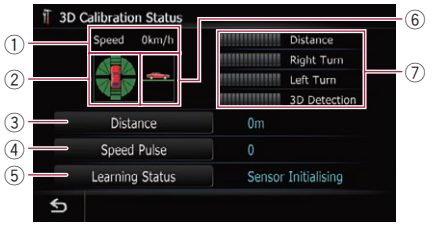
2 Touch [3D Calibration Status].
The "**3D Calibration Status**" screen appears.



① **Speed**
The speed detected by the navigation system is indicated. (This indication may be different from the actual speed of your vehicle, so please do not use this instead of the speedometer.)

② **Acceleration or deceleration/Rotational speed**
Acceleration or deceleration velocity of your vehicle is indicated. Also, rotational speed when your vehicle turns to left or right is shown.

③ **Distance**
Driving distance is indicated.

④ **Speed Pulse**
Total number of speed pulses is indicated.

⑤ **Learning Status**
Current driving mode is indicated.

⑥ **Inclination**
Degree of slope of the street that you are currently running is indicated.

⑦ **Degree of learning**
Sensor learning situations for distance (**Distance**), right turn (**Right Turn**), left turn (**Left Turn**) and 3D detection (**3D Detection**) are indicated by the length of bars.

❒ When tyres have been changed or chains fitted, turning on the Speed Pulse allows the system to detect the fact that the tyre diameter has changed, and automatically replaces the value for calculating distance.

❒ If ND-PG1 is connected, the distance calculation value cannot be replaced automatically.

Clearing status

You can delete the learned results stored in [**Distance**], [**Speed Pulse**] or [**Learning Status**].

1 Touch [Distance] or [Speed Pulse].
The following message appears.

2 Touch [Yes].
Clears the learned results stored in [**Distance**] or [**Speed Pulse**].

3 Touch [Learning Status].
The following message appears.

4 Touch [All].
Clears all learning statuses.

❒ Touch [**All**] for the following cases:
— After changing the installation position of the navigation system
— After changing the installation angle of the navigation system
— After moving the navigation system to another vehicle

■ Touch [**Distance**].
Clears the learned results stored in [**Distance**].

❒ When the distance accuracy is low, touch [**Distance**].

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Using the "Fuel Mileage" function

Inputting the fuel consumption information for calculating the fuel cost

You can estimate the fuel cost to your destination by entering the fuel consumption information in the navigation system.

1 Display the "Navi Settings" screen.

2 Touch [Fuel Mileage].

The "**Fuel Mileage Setting**" screen appears.

3 Enter the fuel consumption information.

Enter the following items:

- [**Surface Road Fuel Mileage**]:
  Enter the fuel cost when you drive on ordinary roads.
  - ❒ How the fuel cost is entered depends on the [**Fuel Unit**] setting.
    - — When [**Fuel Unit**] is set to [**Litre**]. Enter how much fuel you need to travel 100 kilometres (60 miles).
    - — When [**Fuel Unit**] is set to [**Gallon**]. Enter how many kilometres (miles) you get to a gallon.
- [**Motorway Fuel Mileage**]:
  Enter the fuel cost when you drive on the motorway.
  - ❒ How the fuel cost is entered depends on the [**Fuel Unit**] setting.
    - — When [**Fuel Unit**] is set to [**Litre**]. Enter how much fuel you need to travel 100 kilometres (60 miles).
    - — When [**Fuel Unit**] is set to [**Gallon**]. Enter how many kilometres (miles) you get to a gallon.
- [**Fuel Price Per Unit**]:
  Enter the fuel unit price.
- [**Fuel Unit**]:
  Set the fuel unit.
- [**Currency**]:
  Set the unit of currency.

When all the items are entered, inputting the fuel consumption information is complete.

Entering the fuelling information

When you enter the fuelling information to the navigation system, and export the data to SD memory cards, you can check the fuel consumption information by using the utility programme "NavGate Feeds" which is available separately, on your PC.

❒ Up to 24 sets of "**Fuel Price Calculation**" entries can be stored. You can also export the data, as described below.
If the entries reach the maximum number, a new entry will overwrite the oldest one.

Fuel Price Calculation function only assists you to calculate your average mileage based on the information you input. The function does not receive data directly from the vehicle.

1 Display the "Navi Settings" screen.

2 Touch [Fuel Mileage].

The "**Fuel Mileage Setting**" screen appears.

3 Touch [Fuel Price Calculation].

The "**Fuel Price Calculation**" screen appears.

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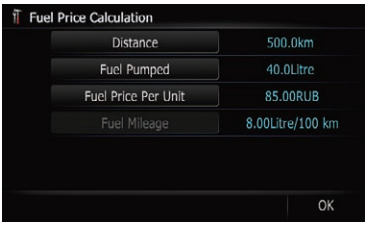
4 Enter the following settings:

- [**Distance**]:
  Enter the distance travelled since the previous fuelling.
  - ❒ The distance is entered automatically only when the distance travelled since the previous fuelling is recorded.
- [**Fuel Pumped**]:
  Enter the amount of fuel pumped.
- [**Fuel Price Per Unit**]:
  Enter the fuel unit price.

When all the items are entered, the fuel consumption is displayed next to "**Fuel Mileage**".



5 Touch [OK].

The "**Fuel Mileage Setting**" screen appears.

Exporting the data of "Fuel Price Calculation"

Exporting the "**Fuel Price Calculation**" data to an SD memory card is possible.

- ❒ The data stored in this navigation system will be cleared as exporting it to the SD memory card.
- ❒ If there is a previous data in the SD memory card, the data is overwritten with new data when current data is exported.

1 Insert an SD memory card into the SD card slot.

- ➲ For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 13.

2 Display the "Navi Settings" screen.

3 Touch [Fuel Mileage].

The "**Fuel Mileage Setting**" screen appears.

4 Touch [Export].

After a message confirming whether to export the data appeared, exporting the data to the SD memory card starts.

The "**Fuel Mileage Setting**" screen appears when it is done.

Recording your travel history

Activating the track logger enables you to record your driving history (called "track log" below). You can review the travel history later.

- ❒ If an SD memory card is inserted into the SD card slot, the track logs will be stored in the SD memory card.

1 Insert an SD memory card into the SD card slot.

- ➲ For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 13.

2 Display the "Navi Settings" screen.

3 Touch [Drive Log Settings].

The "**Drive Log Settings**" screen appears.

4 Touch [Drive Log Settings].

Each time you touch the key changes that setting.

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- [**On**]:
  You can export your track log to the SD card.
- [**Off**] (default):
  You cannot export your track log to the SD card.

■ Touch [**Type**].

Each time you touch the key changes that setting.

- [**Private**] (default):
  Set the track log attribute to "**Private**".
- [**Business**]:
  Set the track log attribute to "**Business**".
- [**Other**]:
  Set the track log attribute to "**Other**".

❒ While the setting is [**On**], the navigation system continues to store the track logs in the inserted SD memory card.

Using the demonstration guidance

This is a demonstration function for retail stores. After a route is set, touching this key starts the simulation of route guidance.

1 Display the "Navi Settings" screen.

2 Touch [Demo Mode].

Each time you touch the key changes that setting.

- [**On**]:
  Repeat demo drive.
- [**Off**] (default):
  Demo Mode is set off.

3 Display the map screen.

The demonstration guidance will begin.

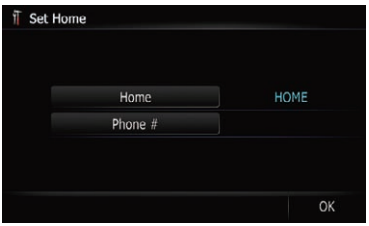
Registering your home

Registering your home position saves time and effort. Also, routes to home positions can be calculated easily with a single touch of the key from the "**Destination Menu**". The registered home position can also be modified later.

1 Display the "Navi Settings" screen.

2 Touch [Set Home].

The "**Set Home**" screen appears.



3 Touch [Home].

The "**Select Search Method**" screen appears.

■ Touch [**Phone #**].

When you have already registered your home, you can edit your home number.

4 Search for a location.

After searching for a point, display it on a map, then touch [**OK**].

The location is registered, and then the "**Set Home**" screen appears.

➲ For details, refer to *Searching for and selecting a location* on page 38.

5 Touch [OK].

The registration is completed.

Correcting the current location

Touch the screen to adjust the current position and direction of the vehicle displayed on the map.

1 Display the "Navi Settings" screen.

2 Touch [Modify Current Location].

3 Scroll to the position where you want to set, then touch [OK]. ■

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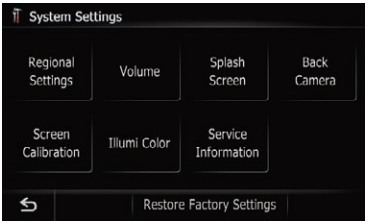
Options on the "System Settings" menu

Displaying the "System Settings" screen

1 Press the HOME button to display the "Top Menu".

2 Touch [Settings].
The "**Settings Menu**" screen appears.

3 Touch [System Settings].
The "**System Settings**" screen appears.



Customising the regional settings

1 Display the "System Settings" screen.

2 Touch [Regional Settings].
The "**Regional Settings**" screen appears.

Selecting the language

You can set the languages used on the programme and voice guidance. Each language can be set separately.

1 Display the "Regional Settings" screen.

2 Touch [Program Language].
The language list is displayed.

3 Touch the desired language.
After the language is selected, the screen returns to the previous screen.

4 Touch [Voice Language].
The "**Voice Language Selection**" screen appears.

5 Touch the desired language.
After the language is selected, the screen returns to the previous screen.

6 Touch [OK] on the "Regional Settings" screen.
A message confirming whether to restart the navigation system appears.

7 Touch [OK].
The navigation system restarts.

- Press the **MODE** button or the **HOME** button.

Cancels the setting of the languages.

Installing additional files for voice guidance (TTS files)

TTS file is used to read out the street name in the route guidance by navigation system. If the latest TTS file is available, you can replace the current TTS file with the latest one.

1 Copy the "Voice" folder onto the topmost directory of the SD memory card.
The "**Voice**" folder is stored on the supplied CD-ROM. Use your PC to copy it.

2 Insert an SD memory card into the SD card slot.

➲ For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 13.

3 Touch [Voice Language].
The "**Voice Language Selection**" screen appears.

4 Touch [Setup Voice].
The "**Voice Language Setup**" screen appears.

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5 Touch the desired language.
After the language is selected, the screen returns to the previous screen.

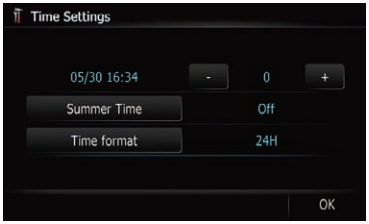
6 Touch [OK].
The navigation system restarts.

Setting the time difference

Adjusts the systems clock. Set the time difference (**+**, **–**) from the time originally set in your navigation system.

1 Display the "Regional Settings" screen.

2 Touch [Time].
The "**Time Settings**" screen appears.



3 To set the time difference, touch [+] or [–].
The time difference between the time originally set in the navigation system (Moscow Standard Time) and the current location of your vehicle is shown. If necessary, adjust the time difference. Touching [**+**] or [**–**] changes the time difference display in one-hour increments.
The time difference can be set from **–4** to **+9** hours.

4 Touch [Summer Time].
If necessary, set to summer time.
Summer time is off by default. Touch [**Summer Time**] to change the time if you are in the summer time period. This turns the display below summer time [**On**].

5 Touch [Time format].
Each time you touch the key changes that setting.
- [**24H**] (default):
  Switching the display for 24 hours.
- [**12H**]:
  Switching the display for 12 hours with am/pm.

Changing the unit between km and miles

This setting controls the unit of distance and speed displayed on your navigation system.

1 Display the "Regional Settings" screen.

2 Touch [km / mile].
A message confirming whether to change the setting appears.

3 Touch [Yes].
It changes the settings as follows:
- [**km**] (default):
  Show distance in kilometres.
- [**mile**]:
  Show distance in miles.
- [**Mile&Yard**]:
  Show distance in miles and yards.

■ Touch [**No**].
Cancels the setting.

Changing the virtual speed of the vehicle

When calculating the expected time of arrival and the number of hours to the destination, set the average speed for the motorway or ordinary roads using [**+**] and [**–**].

1 Display the "Regional Settings" screen.

2 Touch [Speed].
The "**Average Speed Settings**" screen appears.

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3 Touch [+] or [–] to set the speed.

❒ The estimated time of arrival is not necessarily estimated based on this speed value.

4 Touch [OK].

The settings are completed.

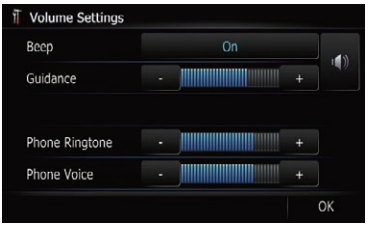
Setting the Volume for Guidance and Phone

The sound volume for the navigation can be set. You can separately set the volume of the route guidance and the beep sound.

1 Display the "System Settings" screen.

2 Touch [Volume].

The "**Volume Settings**" screen appears.



3 Touch the key next to "Beep".

Each time you touch the key changes that setting.

- [**On**] (default):
  A beep sounds.
- [**Off**]:
  Muting the beep sound.

4 Touch [+] or [–] to set their volume.

On this screen, you can operate the following items.

- [**Guidance**]
  This setting controls the guidance volume of navigation.
  ❒ When set to , guidance is output.
  When set to , no guidance is output.
- [**Phone Ringtone**]
  This setting controls the incoming ring tone volume.
- [**Phone Voice**]
  This setting controls the incoming voice volume.

❒ **Phone Ringtone** and **Phone Voice** adjustments are related to the mobile phone featuring Bluetooth technology. No adjustment is needed when the mobile phone featuring Bluetooth technology is not connected.

❒ Volume of the AV source is adjusted by **VOL** (**+**/**–**) button.

➲ For details, refer to *Checking part names and functions* on page 11.

5 To finish the setting, touch [OK].

Changing the splash screen

You can change the splash screen to the other images stored in the navigation system.

1 Display the "System Settings" screen.

2 Touch [Splash Screen].

The "**Select Splash Screen**" screen appears.

3 Touch the image to use as the splash screen from the list.

The image is displayed on the screen.

4 Touch [OK].

The image is set as the splash screen, and the system returns to the "**System Settings**" menu.

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Changing to the splash screen stored in the SD memory card

You can change the splash screen that appears when the navigation system starts. Copy your chosen image to the SD memory card, and select the image to import.

- Splash screen images should be used within the following formats;
  - BMP or JPEG files
  - Allowable horizontal and vertical size are 2 592 pixels x 1 944 pixels or smaller
  - Allowable data size is 6 MB or smaller
- Proper compatibility with allowable files is not guaranteed.
- Imported original images will be stored in the built-in memory, but the ability to save these images cannot be guaranteed completely. If your original image data is deleted, insert the SD memory card again and re-import the original image.

1 Create a folder named "Pictures" on the top-most directory of the SD memory card and store the picture files in this folder.

2 Store the picture files in "Pictures".

3 Insert an SD memory card into the SD card slot.

➲ For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 13.

4 Display the "System Settings" screen.

5 Touch [Splash Screen].
The "**Select Splash Screen**" screen appears.

6 Touch [Select from SD].
The "**Select Splash Screen**" screen appears.

7 Touch the image to use as the splash screen from the list.
The image is displayed on the screen.

8 Touch [OK].
The image is set as the splash screen, and the system returns to the "**System Settings**" menu.

Setting for rear view camera

The following two functions are available. The rear view camera feature requires a separately sold rear view camera (e.g. ND-BC2). (For details, consult your dealer.)

Rear view camera

The navigation system features a function that automatically switches to the full-screen rear view camera image installed on your vehicle. When the gear stick is in the REVERSE (R) position, the screen automatically switches to full-screen rear view camera.

Camera for Rear view mode

[**Rear View**] can be displayed at all times (e.g. when monitoring an attached trailer, etc.) as a split screen where map information is partially displayed. Please be aware that with this setting, camera image is not resized to fit, and that a portion of what is seen by the camera is not viewable.

CAUTION

Pioneer recommends the use of a camera which outputs mirror reversed images, otherwise the screen image may appear reversed.

- Immediately verify whether the display changes to a rear view camera image when the gearstick is moved to REVERSE (R) from another position.
- When the screen changes to full-screen rear view camera image during normal driving, switch to the opposite setting in [**Polarity**].

1 Display the "System Settings" screen.

2 Touch [Back Camera].
The "**Back Camera Settings**" screen appears.

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3 Touch [Camera] to turn it [On].

❒ You can only switch to "**Rear View**" if this setting is [**On**].

4 Touch [Battery] or [GND] next to "Polarity" to select the appropriate polarity setting.

- **Battery** — When the polarity of the connected lead is positive while the gearstick is in the REVERSE (R) position
- **GND** — When the polarity of the connected lead is negative while the gearstick is in the REVERSE (R) position

Adjusting the response positions of the touch panel (touch panel calibration)

If you feel that the touch panel keys on the screen deviate from the actual positions that respond to your touch, adjust the response positions of the touch panel screen.

❒ Do not use a sharp pointed tool such as a ballpoint pen or a mechanical pen, which could damage the screen.

1 Display the "System Settings" screen.

2 Touch [Screen Calibration].

A message confirming whether to start the calibration appears.

3 Gently touch the centre of + mark displayed on the screen.

The target indicates the order.

After you touch all marks, the adjusted position data is saved.

❒ Do not turn off the engine while saving the adjusted position data.

■ Press the **MODE** button.

Returns to the previous adjustment position.

■ Press and hold the **MODE** button.

Cancels the adjustment.

Setting the illumination colour

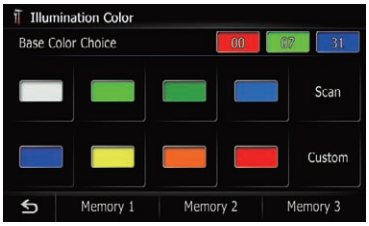
The illumination colour can be selected from 11 different colours. Furthermore, the illumination colour can switched between these 11 colours in order.

To set the illumination colour, display the "**Illumination Color**" screen.

1 Display the "System Settings" screen.

2 Touch [Illumi Color].

The "**Illumination Color**" screen appears.



Selecting the colour from the preset colours

1 Display the "Illumination Color" screen.

2 Touch the colour you want.

Available options;

- Coloured keys — Selects the desired preset colour
- **Memory 1**/**Memory 2**/**Memory 3** — Colours registered in the memory
  - ➲ For details, refer to *Creating a user-defined colour and storing it to memory* on this page.
- **Scan** — Shifts between the eight default colours in sequence gradually.

Creating a user-defined colour and storing it to memory

You can create a user-defined colour and set it as the illumination colour.

1 Display the "Illumination Color" screen.

2 Touch [Custom].

The "**Illumination Color**" screen appears.

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❒ If [**Scan**] is set, [**Custom**] cannot be selected.

3 Touch [+] or [–] to adjust the values for Red, Green and Blue to create a favourite colour.

Watch the illumination of hardware keys while adjusting the colour.

Each time you touch [**+**] or [**–**] increases or decreases the value of the selected item. **+31** to **+00** is displayed as the value is increased or decreased.

❒ An entry cannot be stored with all of the values set to "**+00**".

4 Touch [Memory 1], [Memory 2] or [Memory 3] to store the illumination colour.

5 Touch [OK] to return to the previous screen.

Checking the version information

1 Display the "System Settings" screen.

2 Touch [Service Information].

The "**Service Information Screen**" screen appears.

3 Check the version information. ■

Replicating the settings

You can import settings you have made on the utility programme "NavGate Feeds" which is available separately to the navigation system.

1 Insert an SD memory card into the SD card slot.

➲ For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 13.

2 Press the HOME button to display the "Top Menu".

3 Touch [Settings].

The "**Settings Menu**" screen appears.

4 Touch [Setting Replicator].

A message confirming whether to update the settings appears.

5 Touch [Yes].

Update starts.

After updating the settings is finished, a message confirming whether to restart the navigation system appears.

6 Touch [OK].

The navigation system restarts. ■

Setting "Safe Mode"

For safety reasons, you can limit the functions that are available while your vehicle is in motion.

1 Press the HOME button to display the "Top Menu".

2 Touch [Settings].

The "**Settings Menu**" screen appears.

3 Touch [Safe Mode].

Each time you touch the key changes that setting.

- [**On**] (default):
  Activates the "**Safe Mode**" function.
- [**Off**]:
  Deactivates the "**Safe Mode**" function. ■

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Turning off the screen

By turning off the backlight of the LCD screen, you can turn off the screen display without turning off the voice guidance.

● **Touch [Screen Off] on the "Settings Menu" menu.**

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

The screen is turned off.

❒ Touch anywhere on the screen to turn it back on. ■

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You can listen to the radio by using the navigation system. This section describes operations for radio (FM).

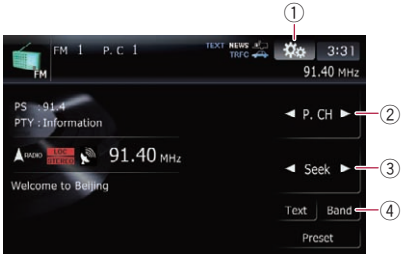
The functions related to RDS (Radio Data System) are available only in areas with FM stations broadcasting RDS signals. Even if the navigation system is receiving an RDS station, not all the functions related with RDS will be available.

- **Touch [FM] on the "AV Source" menu to display the "FM" screen.**
  - ➲ For details concerning operations, refer to *Screen switching overview* on page 18.

Reading the screen

① **Source icon**
Shows which source has been selected.
② **Band indicator**
Shows which band the radio is tuned to: FM1 to FM3.
③ **Preset number indicator**
Shows what preset item has been selected.
④ **Signal level indicator**
⑤ **TEXT indicator**
Shows when the radio text is received.
⑥ **NEWS indicator**
Shows the status of news programmes.
⑦ **TRFC indicator**
Shows the status of traffic announcements.
⑧ **Frequency indicator**
⑨ **Current time**
⑩ **Programme service name indicator**
Shows the programme service name (station name) of the current station.
⑪ **PTY indicator**
Shows the programme type of the current station (when available).
⑫ **LOCAL indicator**
Shows when local seek tuning is on.
⑬ **STEREO indicator**
Shows that the frequency selected is being broadcast in stereo.
⑭ **Radio text display area**
Displays the radio text currently received.

Using the touch panel keys



① **Display the "Function" menu**
  - ➲ For details, refer to *Using the "***Function***" menu* on page 77.

② **Select a preset channel**
[◄] or [►] can be used to switch preset channels.

③ **Perform manual tuning**
To tune manually, touch [◄] or [►] briefly. The frequencies move up or down one step at a time.

Perform seek tuning
To perform seek tuning, touch and hold [◄] or [►] for about one second and release. The tuner will scan the frequencies until a broadcast strong enough for good reception is found.
  - ❒ You can cancel seek tuning by touching either [◄] or [►] briefly.

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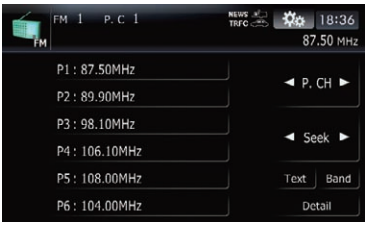
❒ If you touch and hold [◄] or [►], you can skip broadcasting frequencies. Seek tuning will start as soon as you release the keys.
❒ You can also perform these operations by using the **TRK** (◄/►) button.

④ **Select an FM band**
Touch [**Band**] repeatedly until the desired FM band is displayed, **FM1**, **FM2** or **FM3**.
❒ This function is convenient for preparing different preset lists for each band.

Switching between the detailed information display and the preset list display

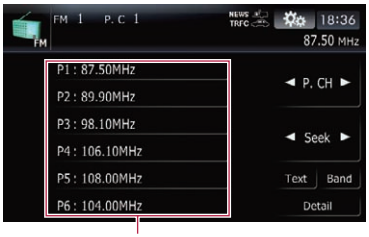
You can switch the left side of the basic screen according to your preference.



● **Touch [Preset] (or [Detail]).**
Each touch of [**Preset**] (or [**Detail**]) changes the detailed information display or preset list display.

Storing and recalling broadcast frequencies

With a touch of any of the preset tuning keys ([**P1**] to [**P6**]), you can easily store up to six broadcast frequencies for later recall (also with the touch of a key).



Preset tuning keys

1 When you find a frequency that you want to store in memory, touch and hold a preset tuning key [P1] to [P6] until the preset number (e.g., P. C 1) is appears.
The selected radio station has been stored in memory.
❒ Up to 18 FM stations, 6 for each of the three FM bands, as well as 6 MW/LW stations, can be stored in memory.

2 The next time you touch the same preset tuning key [P1] to [P6], the radio station frequencies are recalled from memory.
❒ You can also use [◄] and [►] to recall radio stations assigned to preset tuning keys [**P1**] to [**P6**].

Using radio text

This tuner can display radio text data transmitted by RDS stations, such as station information, the name of the currently broadcast song and the name of the artist.
❒ The tuner automatically memorises the three latest radio text broadcasts received, replacing text from the least recent reception with new text when it is received.

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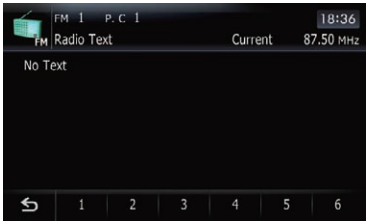
Displaying radio text

You can display the currently received radio text and the three most recent radio text transmissions.

1 Touch [Text] to display radio text.

Radio text for the currently broadcasting station is displayed.



❒ When no radio text is received, "**No Text**" is displayed.

2 Press the TRK (◄/►) button.

Pressing the buttons switches the text contents from the current radio text to the most recent three radio text transmissions.

❒ If there is no radio text data in memory, the display will not change.

Storing and recalling radio text

You can store data from up to six radio text transmissions in the touch panel keys [**1**] — [**6**].

1 Display the radio text you want to store in memory.

➲ For details, refer to *Displaying radio text* on this page.

2 Touch and hold any of the keys [1] — [6] to store the displayed radio text.

The selected radio text is stored in memory. The next time you press the same keys [**1**] — [**6**] in the radio text display, the stored text is recalled from memory.

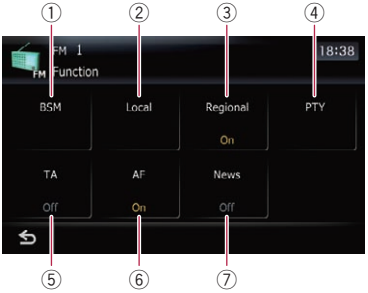
❒ If the radio text data already stored under memory [**1**] — [**6**], the radio text memorised afterward will overwrite the existing one.

Using the "Function" menu

1 Touch [FM] on the "AV Source" menu to display the "FM" screen.

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

2 Touch .



① **Storing the strongest broadcast frequencies**

➲ For details, refer to this page.

② **Tuning in strong signals**

➲ For details, refer to the next page.

③ **Limiting stations to regional programming**

➲ For details, refer to the next page.

④ **Searching for an RDS station by PTY information**

➲ For details, refer to the next page.

⑤ **Receiving traffic announcements**

➲ For details, refer to page 79.

⑥ **Tuning into alternative frequencies**

➲ For details, refer to page 79.

⑦ **Using news programme interruption**

➲ For details, refer to page 80.

Storing the strongest broadcast frequencies

"**BSM**" (best stations memory) lets you automatically store the six strongest broadcast frequencies under the preset tuning keys [**P1**] to [**P6**] and, once stored there, you can tune in to these frequencies with the touch of a key.

1 Touch [BSM].

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2 Touch [Start] to start "BSM".
BSM begins to flash. While **BSM** is flashing, the six strongest broadcast frequencies will be stored under the preset tuning keys [**P1**] to [**P6**] in order of their signal strength. When this is complete, **BSM** stops flashing.

- ❒ To cancel the storage process, touch [**Stop**].
- ❒ Storing broadcast frequencies with **BSM** may replace broadcast frequencies you have already saved by using [**P1**] to [**P6**].

Limiting stations to regional programming

When AF is used to automatically retune frequencies, the regional function limits the selection to stations broadcasting regional programmes.

- **Touching [Regional] switches between [On] and [Off].**
  - ❒ Regional programming and regional networks are organised differently depending on the country (i.e., they may change according to the time, country or broadcast area).
  - ❒ The preset number may disappear on the display if the tuner tunes in a regional station that differs from the originally set station.
  - ❒ The regional function can be turned on or off independently for each FM band.

Tuning in strong signals

Local seek tuning allows you to tune in only those radio stations with sufficiently strong signals for good reception.

1 Touch [Local].

2 Touch [On] to turn local seek tuning on.
To turn local seek tuning off, touch [**Off**].

3 Touch [◄Prev] or [Next►] to set the sensitivity.
There are four levels of sensitivity for FM.
Level: **1** — **2** — **3** — **4**

- ❒ The level "**4**" setting allows reception of only the strongest stations, while lower settings let you receive weaker stations.

Searching for an RDS station by PTY information

You can search for general types of broadcasting programmes.
➲ For details, refer to *PTY list* on page 81.

1 Touch [PTY].

2 Touch [◄Prev] or [Next►] to select a programme type.
There are four programme types:
News&INF — **Popular** — **Classics** — **Others**

3 Touch [Start] to begin the search.
The tuner searches for a station broadcasting that programme type.

- ❒ To cancel the search, touch [**Stop**].
- ❒ The programmes of some stations may differ from that indicated by the transmitted PTY.
- ❒ If no station is broadcasting the type of programme you searched for, **Not Found** is displayed for about two seconds and then the tuner returns to the original station.

Receiving PTY alarm broadcasts

PTY alarm is a special PTY code for announcements regarding emergencies such as natural disasters. When the tuner receives the radio alarm code, **ALARM** appears on the display and the volume adjusts to the TA volume. When the station stops broadcasting the emergency announcement, the system returns to the previous source.

- ❒ An emergency announcement can be cancelled by touching [**Cancel**].
- ❒ You can also cancel an emergency announcement by changing the source or band.

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Receiving traffic announcements

TA (traffic announcement standby) lets you receive traffic announcements automatically, no matter what source you are listening to. **TA** can be activated for both a TP station (a station that broadcasts traffic information) or another enhanced network's TP station (a station carrying information that cross-references TP stations).

1 Tune in a TP station or another enhanced network's TP station.

When you are tuned into a TP station or another enhanced network's TP station, indicator will light.

2 Touch [TA] on the "Function" menu to turn traffic announcement standby on.

appears in the display. The tuner will standby for traffic announcements. If you turned **TA** function on while tuned in to neither a TP station nor another enhanced network's TP station, the indicator lights. To turn traffic announcements standby off, touch [**TA**] again.

3 Use VOL (+/–) button to adjust the TA volume when a traffic announcement begins.

The newly set volume is stored in memory and recalled for subsequent traffic announcements.

4 Touch [Cancel] while a traffic announcement is being received to cancel the announcement.

The tuner returns to the original source but remains in standby mode until [**TA**] is touched again.

You can also cancel the announcement by changing the source or band.

- ❒ The system switches back to the original source following traffic announcement reception.
- ❒ Only TP stations and other enhanced networks' TP stations are tuned in during seek tuning or BSM when **TA** is on.

Tuning into alternative frequencies

If you are listening to a broadcast and the reception becomes weak or there are other problems, the navigation system will automatically search for a different station in the same network that is broadcasting a stronger signal.

- **Touching [AF] switches between [On] and [Off].**
  - ❒ **AF** is on as a default.
  - ❒ Only RDS stations are tuned in during seek tuning or BSM when AF is on.
  - ❒ When you recall a preset station, the tuner may update the preset station with a new frequency from the station's AF list. No preset number appears on the display if the RDS data for the station received differs from that for the originally stored station.
  - ❒ Sound may be temporarily interrupted by another programme during an AF frequency search.
  - ❒ AF can be turned on or off independently for each FM band.

PI Seek operation

If the unit fails to find a suitable alternative frequency, or if you are listening to a broadcast and the reception becomes weak, the navigation system will automatically search for a different station with the same programming. During the search, **PI SEEK** is displayed and the output is muted. Muting is discontinued after completion of the PI Seek, whether or not a different station is found.

Activating the Auto PI seek for preset stations

When preset stations cannot be recalled, as when travelling long distances, the unit can be set to perform PI Seek during preset recall.

- ❒ The default setting for Auto PI Seek is off.
- ➲ For details, refer to *Switching* **Auto PI** *seek* on page 126.

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Using news programme interruption

When a news programme is broadcast from a PTY code news station, the navigation system can switch from any station to the news broadcast station. When the news programme ends, reception of the previous programme resumes.

- **Touching [News] switches between [On] and [Off].**

To turn off news programme interruption, touch [**News**] again.
A news programme can be cancelled by touching [**Cancel**].
You can also cancel the news programme by changing the source or band.

Interruption icon status

The indication of the status icon changes according to the situation as shown below.

TRFC indicator

Indicator	Meaning
	Information interruption is activated, but you will not receive data since there is none.
	Even if information interruption is deactivated, data is still received. (You can receive when you activate the information interruption.)
	Information interruption is activated, and currently receiving data.
(No display)	Information interruption is deactivated, and no data is being received.

NEWS indicator

Indicator	Meaning
	Information interruption is activated, but you will not receive data since there is none.
	Even if information interruption is deactivated, data is still received. (You can receive when you activate the information interruption.)
	Information interruption is activated, and currently receiving data.
(No display)	Information interruption is deactivated, and no data is being received.

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PTY list

General	Specific	Type of programme
News&INF	**News**	News
	Affairs	Current affairs
	Info	General information and advice
	Sport	Sports
	Weather	Weather reports/meteorological information
	Finance	Stock market reports, commerce, trading, etc.
Popular	**Pop Mus**	Popular music
	Rock Mus	Contemporary modern music
	Easy Mus	Easy listening music
	Other Mus	Non categorised music
	Jazz	Jazz
	Country	Country music
	Nat Mus	National music
	Oldies	Oldies music, golden oldies
	Folk Mus	Folk music
Classics	**L. Class**	Light classical music
	Classic	Serious classical music
Others	**Educate**	Educational programmes
	Drama	All radio plays and serials
	Culture	National or regional culture
	Science	Nature, science and technology
	Varied	Light entertainment
	Children	Children's
	Social	Social affairs
	Religion	Religion affairs or services
	Phone In	Phone In
	Touring	Travel programmes, not for announcements about traffic problems
	Leisure	Hobbies and recreational activities
	Document	Documentaries

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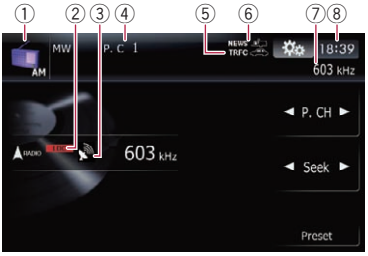
You can listen to the radio using this navigation system. This section describes operations for radio (MW/LW).

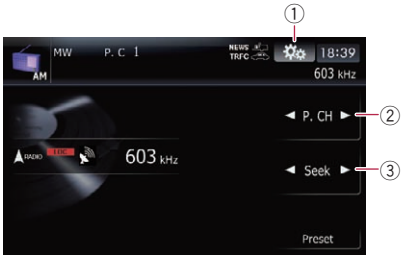
- **Touch [AM] on the "AV Source" menu to display the "AM" screen.**
  - ➲ For details concerning operations, refer to *Screen switching overview* on page 18.

Reading the screen



① **Source icon**
Shows which source has been selected.
② **LOCAL indicator**
Shows when local seek tuning is on.
③ **Signal level indicator**
④ **Preset number indicator**
Shows what preset item has been selected.
⑤ **TRFC indicator**
Shows the status of traffic announcements.
⑥ **NEWS indicator**
Shows the status of news programmes.
⑦ **Frequency indicator**
⑧ **Current time**

Using the touch panel keys



① **Display the "Function" menu**
  - ➲ For details, refer to *Using the "**Function**" menu* on the next page.

② **Select a preset channel**
◄ or ► can be used to switch presets.

③ **Perform manual tuning**
To tune manually, touch [◄] or [►] briefly. The frequencies move up or down one step at a time.

Perform seek tuning
To perform seek tuning, touch and hold [◄] or [►] for about one second and release. The tuner will scan the frequencies until a broadcast strong enough for good reception is found.
  - ❒ You can cancel seek tuning by touching either [◄] or [►] briefly.
  - ❒ If you touch and hold [◄] or [►], you can skip broadcasting frequencies. Seek tuning will start as soon as you release the keys.
  - ❒ You can also perform these operations by using the **TRK** (◄/►) button.

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Switching between the detailed information display and the preset list display

You can switch the left side of the basic screen according to your preference.

- **Touch [Preset] (or [Detail]).**

Each touch of [**Preset**] (or [**Detail**]) changes the detailed information display or preset list display.

Storing and recalling broadcast frequencies

With a touch of any of the preset tuning keys ([**P1**] to [**P6**]), you can easily store up to six broadcast frequencies for later recall (also with the touch of a key).

Preset tuning keys

1 When you find a frequency that you want to store in memory, touch and hold a preset tuning key [P1] to [P6] until the preset number (e.g., P. C 1) is appears.

The selected radio station has been stored in memory.

2 The next time you touch the same preset tuning key [P1] to [P6], the radio station frequencies are recalled from memory.

❒ You can also use [◀] and [▶] to recall radio stations assigned to preset tuning keys [**P1**] to [**P6**]. ■

Using the "Function" menu

1 Touch [AM] on the "AV Source" menu to display the "AM" screen.

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

2 Touch .

① **Storing the strongest broadcast frequencies**

➲ For details, refer to this page.

② **Tuning in strong signals**

➲ For details, refer to the next page.

Storing the strongest broadcast frequencies

"**BSM**" (best stations memory) lets you automatically store the six strongest broadcast frequencies under the preset tuning keys [**P1**] to [**P6**] and, once stored there, you can tune in to these frequencies with the touch of a key.

- **Touch [Start] to turn BSM on.**

BSM begins to flash. While **BSM** is flashing, the six strongest broadcast frequencies will be stored under the preset tuning keys [**P1**] to [**P6**] in order of their signal strength. When this is complete, **BSM** stops flashing.

❒ To cancel the storage process, touch [**Stop**].

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❒ Storing broadcast frequencies with **BSM** may replace broadcast frequencies you have already saved by using [**P1**] to [**P6**].

Tuning in strong signals

Local seek tuning allows you to tune in only those radio stations with sufficiently strong signals for good reception.

1 Touch [On] to turn local seek tuning on.
To turn local seek tuning off, touch [**Off**].

2 Touch [◄Prev] or [Next►] to set the sensitivity.
There are two levels of sensitivity for AM.
Level: **1** — **2**

❒ The level "**2**" setting allows reception of only the strongest stations, while lower settings let you receive weaker stations.

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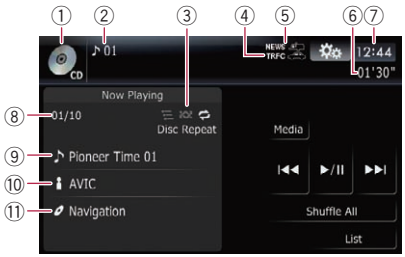
You can play a normal music CD using the built-in drive of the navigation system. This section describes how.

1 Insert the disc you want to play into disc-loading slot.
Playback starts from the first track of the CD.

2 Touch [Disc] on the "AV Source" menu to display the "CD" screen.
➲ For details concerning operations, refer to *Screen switching overview* on page 18.

3 Use the touch panel keys on the screen to control the disc.

Reading the screen



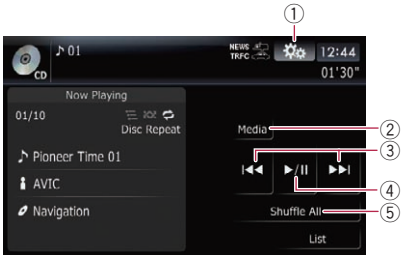
① **Source icon**
Shows which source has been selected.
② **Track number indicator**
Shows the number of the track currently playing.
③ **Playback condition indicator**
The marks shown below appears and indicates the current playback condition.
: Scan play
: Random play
: Repeat play

Indicator	Meaning
Disc Repeat	All tracks in the current disc are played repeatedly. This is the default condition.
Track Repeat	The current track is played repeatedly.
Disc Random	All tracks in the current disc are played in random order.
Disc Scan	The beginning of each track is played for about 10 seconds.

➲ For more information, refer to *Using the "**Function**" menu* on the next page.
④ **TRFC indicator**
Shows the status of traffic announcements.
⑤ **NEWS indicator**
Shows the status of news programmes.
⑥ **Play time indicator**
Shows the elapsed playing time within the current track.
⑦ **Current time**
⑧ **Song number indicator**
Shows the number of the track and the total number of tracks in the repeat range.
⑨ **Track title indicator**
Shows the title of the track currently playing (when available).
⑩ **Artist name indicator**
Shows the artist name currently playing (when available).
⑪ **Album title indicator**
Shows the title of the album for the current track (when available).

Using the touch panel keys

Touch panel keys



① **Display the "Function" menu**
➲ For details, refer to *Using the "**Function**" menu* on the next page.
② **Switch the media file type played**
➲ For details, refer to ***Switch the media file type played*** on page 88.
③ **Skip the track forward or backward**

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Touching [▶▶I] skips to the start of the next track. Touching [I◀◀] once skips to the start of the current track. Touching it again will skip to the previous track.

Fast reverse or forward

Touch and hold [I◀◀] or [▶▶I] to fast rewind or fast forward.

- ❒ Fast reverse is cancelled when it reaches the beginning of the first track on the disc.
- ❒ You can also perform these operations by using the **TRK** (◀/▶) button.

④ **Playback and Pause**

Touching [▶/II] switches between playback and pause.

⑤ **Shuffle All**

All of the songs in the disc can be played at random by touching only one key.

- ❒ To cancel random play, switch [**Random**] to [**Off**] on the "**Function**" menu. ■

Selecting a track from the list

The list lets you see the list of track titles on a disc and select one of them to play.

1 Touch [List].

2 Touch the track you want to play.

The track currently playing is highlighted. Touching ∧ or ∨ switches the selection to the next or previous page in the list.

- ❒ The "–" mark is displayed if there is no corresponding information.

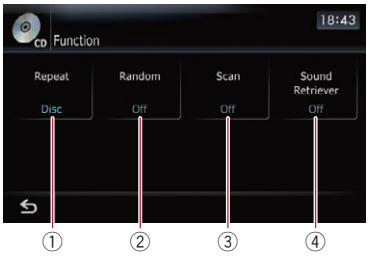
3 To return to the previous screen, touch [Detail]. ■

Using the "Function" menu

1 Touch [Disc] on the "AV Source" menu to display the "CD" screen.

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

2 Touch ⚙.



① **Repeating play**

Each touch of [**Repeat**] changes the setting as follows:

- **Disc** — Repeats the current disc
- **Track** — Repeats just the current track

- ❒ If you perform track search or fast forward/rewind, repeat play is automatically cancelled.

② **Play tracks in a random order**

Touching [**Random**] switches between [**On**] and [**Off**].

③ **Scan tracks of a CD**

Touching [**Scan**] switches between [**On**] and [**Off**]. Scan play lets you hear the first 10 seconds of each track on the CD. When you find the track you want, touch [**Scan**] to turn scan play off.

- ❒ After scanning is finished, normal playback of the tracks will begin again.

④ **Using advanced sound retriever**

Advanced sound retriever function automatically enhances compressed audio and restores rich sound.

Each touch of [**Sound Retriever**] changes the setting as follows:

- **MODE 1** — Activates advanced sound retriever function.
- **MODE 2** — Activates advanced sound retriever function.
- **Off** — Deactivates advanced sound retriever function.

- ❒ **MODE 2** is more effective than **MODE 1**. ■

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You can play a disc that contains compressed audio files using the built-in drive of the navigation system. This section describes these operations.

❒ In the following description, the MP3, WMA, AAC files are collectively referred to as “Compressed audio file”.

1 Insert the disc you want to play into disc-loading slot.

Playback starts from the first file of the ROM.

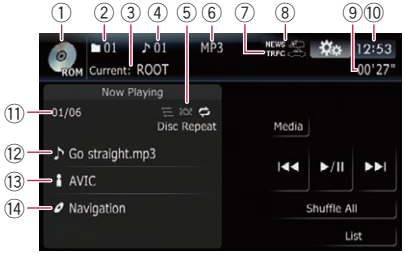
2 Touch [Disc] on the “AV Source” menu to display the “ROM” screen.

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

3 Use this ROM screen to play the disc.

➲ For details, refer to *Using the touch panel keys* on the next page.

Reading the screen



① **Source icon**
Shows which source has been selected.

② **Folder number indicator**
Shows the folder number currently playing.

③ **Folder name indicator**
Shows the folder name currently playing.

④ **File indicator**
Shows the file number currently playing.

⑤ **Playback condition indicator**
The marks shown below appears and indicates the current playback condition.

: Scan play

: Random play

: Repeat play

Indicator	Meaning
Disc Repeat	All audio files in the disc are played repeatedly. This is the default condition.
Folder Repeat	All audio files in the current folder are played repeatedly.
Track Repeat	The current file is played repeatedly.
Disc Random	All audio files in the current disc are played in random order.
Folder Random	All audio files in the current folder are played in random order.
Disc Scan	The beginning of the first audio files of each folder is played for about 10 seconds.
Folder Scan	The beginning of each file in the current folder is played for about 10 seconds.

➲ For more information, refer to *Using the “**Function**” menu* on page 89.

⑥ **File type indicator**
Shows the type of audio file currently playing.

⑦ **TRFC indicator**
Shows the status of traffic announcements.

⑧ **NEWS indicator**
Shows the status of news programmes.

⑨ **Play time indicator**
Shows the elapsed playing time within the current track.

⑩ **Current time**

⑪ **File number indicator**
Shows the number of the file and the total number of files in the repeat range.

⑫ **Track title indicator**
Shows the title of the track currently playing (when available).

❒ If the title of a track is not available, the file name appears.

⑬ **Artist name indicator**
Shows the artist name currently playing (when available).

⑭ **Album title indicator**
Shows the title of the album for the current track (when available).■

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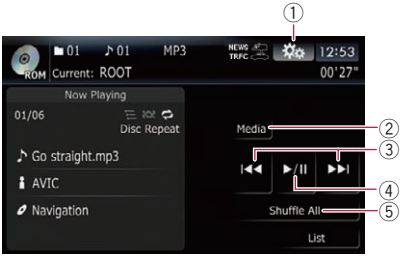
Using the touch panel keys



① **Display the "Function" menu**
➲ For details, refer to *Using the "**Function**" menu* on the next page.

② **Switch the media file type played**
When playing a disc containing a mixture of various media file types, you can switch between media files types to play.
Touch [**Media**] repeatedly to switch between the following media file types:
CD (audio data (CD-DA)) — **ROM** (compressed audio file) — **DivX** (DivX video files)
❒ This touch panel key appears only when playing a disc containing a mixture of various media file types.

③ **Skip the track forward or backward**
Touching [▶▶I] skips to the start of the next track. Touching [I◀◀] once skips to the start of the current track. Touching it again will skip to the previous track.
Fast reverse or forward
Touch and hold [I◀◀] or [▶▶I] to fast rewind or fast forward.
❒ Fast rewind stops when it reaches the beginning of the first file on the repeat range.
❒ In the case of compressed audio files, there is no sound on fast rewind or forward.
❒ You can also perform these operations by using the **TRK** (◀/▶) button.

④ **Playback and Pause**
Touching [▶/II] switches between playback and pause.

⑤ **Shuffle All**
All of the songs in the disc can be played at random by touching only one key.
❒ If the disc contains a mixture of various media file types, all tracks within the current part ("CD" or "ROM") are played randomly.
❒ To cancel random play, switch [**Random**] to [**Off**] on the "**Function**" menu.

Selecting a track from the list

The list lets you see the list of track titles or folder names on a disc. Touch a folder on the list to view its contents. You can play a track on the list by touching it.

1 Touch [List].
The contents of the folder in which the currently playing file is located are displayed.

2 Touch the folder that you want to view.

The track currently playing is highlighted.
Touching ⋀ or ⋁ switches the selection to the next or previous page in the list.
Touching ↰ displays the content of the upper folder (parent folder). If the uppermost folder is listed, ↰ cannot be used.

3 Touch the track you want to play.
❒ To cancel the list screen, touch [**Detail**]. ■

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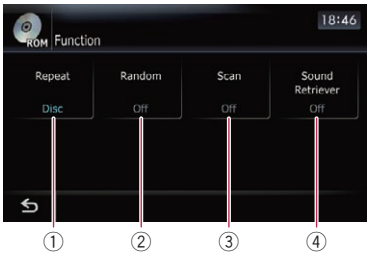
Using the "Function" menu

1 Touch [Disc] on the "AV Source" menu to display the "ROM" screen.

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

2 Touch .



① **Repeating play**
Each touch of [**Repeat**] changes the setting as follows:
- **Disc** — Repeats all compressed audio files
- **Track** — Repeats just the current track
- **Folder** — Repeats the current folder

❒ If you select another folder during repeat play, the repeat play range changes to [**Disc**].
❒ If you perform fast forward/rewind during [**Track**], the repeat play range changes to [**Folder**].
❒ When [**Folder**] is selected, it is not possible to play back a subfolder of that folder.
❒ When playing discs with compressed audio files and audio data (CD-DA), repeat play is performed within the currently playing data session even if [**Disc**] is selected.

② **Play tracks in a random order**
Touching [**Random**] switches between [**On**] and [**Off**]. When using **ROM**, the tracks in the current repeat play range are randomly played.
❒ If you turn [**Random**] to [**On**] when the repeat play range is set to [**Track**], the repeat play range changes to [**Folder**] automatically.

③ **Scan folders and tracks**
Scan play lets you hear the first 10 seconds of each track. Scan play is performed in the current repeat play range.
Touching [**Scan**] switches between [**On**] and [**Off**]. When you find the track you want, touch [**Scan**] to turn scan play off.
❒ After completion of track or folder scanning, normal playback of the tracks will begin again.
❒ If you turn [**Scan**] to [**On**] when the repeat play range is set to [**Track**], the repeat play range changes to [**Folder**] automatically.
❒ If you turn [**Scan**] to [**On**] while the repeat play range is set to [**Disc**], scan play is performed for only the first tracks of each folder.

④ **Using advanced sound retriever**
Advanced sound retriever function automatically enhances compressed audio and restores rich sound.
Each touch of [**Sound Retriever**] changes the setting as follows:
- **MODE 1** — Activates advanced sound retriever function.
- **MODE 2** — Activates advanced sound retriever function.
- **Off** — Deactivates advanced sound retriever function.

❒ **MODE 2** is more effective than **MODE 1**.

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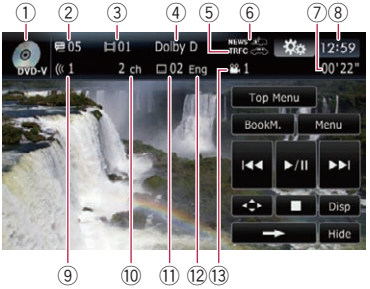
You can play a DVD-Video using the built-in drive of the navigation system. This section describes operations for playing a DVD-Video.

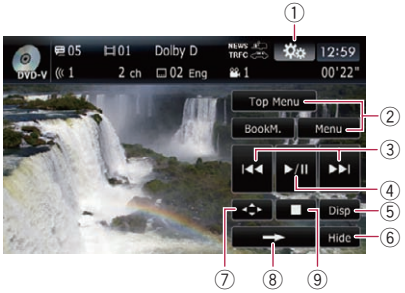
Reading the screen



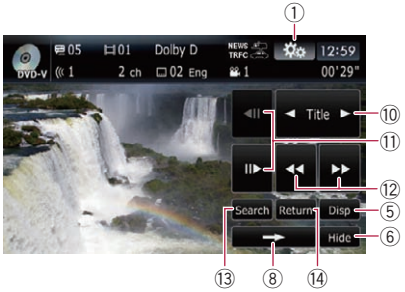
① **Source icon**
Shows which source has been selected.
② **Title number indicator**
Shows the title number currently playing.
③ **Chapter number indicator**
Shows the chapter currently playing.
④ **Digital sound format indicator**
Shows which digital sound format (surround sound format) has been selected.
⑤ **TRFC indicator**
Shows the status of traffic announcements.
⑥ **NEWS indicator**
Shows the status of news programmes.
⑦ **Play time indicator**
Shows the elapsed playing time within the current title.
⑧ **Current time**
⑨ **Audio track indicator**
Shows the audio track number and audio language currently selected.
⑩ **Audio channel indicator**
Shows the current audio channel type, such as "**Mch**" (Multi-channel).
⑪ **Subtitle number indicator**
Shows the subtitle number currently selected.
⑫ **Subtitle language indicator**
Shows the subtitle language currently selected.
⑬ **Viewing angle indicator**
Shows what viewing angle has been selected.

Using the touch panel keys

Playback screen (page1)



Playback screen (page2)



Playback screen (page3)

❒ With some discs, the icon ⃠ may be displayed, meaning that the operation is not valid.

① **Display the "Function" menu**
➲ For details, refer to *Using the "**Function**" menu* on page 93.
② **Display the DVD menu**

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You can display the menu by touching [**Menu**] or [**Top Menu**] while a disc is playing. Touching either of these keys again lets you start playback from the location selected from the menu. For details, refer to the instructions provided with the disc.

③ **Skip forward or backward**
Touching [►►I] skips to the start of the next chapter. Touching [I◄◄] once skips to the start of the current chapter. Touching it again will skip to the previous chapter.
❒ You can also perform these operations by using the **TRK** (◄/►) button.

④ **Playback and Pause**
Touching [►/II] switches between playback and pause.

⑤ **Switch the display**
Touching [**Disp**] changes the indication on the information plate as follows:
Disc information display — Repeat range and L/R select display

⑥ **Hide the touch panel keys**
Touching [**Hide**] hides the touch panel keys. Touch anywhere on the LCD screen to display the touch panel keys again.

⑦ **Display the DVD menu keypad**
➲ For details, refer to *Using DVD menu by touch panel keys* on the next page.

⑧ **Switch next page of touch panel keys**

⑨ **Stop playback**

⑩ **Skip the title forward or backward**
Touching [►] skips to the start of the next title. Touching [◄] skips to the start of the previous title.

⑪ **Frame-by-frame playback (or slow-motion playback)**
➲ For details, refer to *Frame-by-frame playback* on page 93.
➲ For details, refer to *Slow motion playback* on page 93.

⑫ **Fast reverse or forward**
Touch [◄◄] or [►►] to perform fast reverse or forward.
If you touch and hold [◄◄] or [►►] for five seconds, fast reverse/fast forward continues even if you release either of these keys. To resume playback at a desired point, touch [►/II], [◄◄] or [►►] opposite to key pushed for five seconds.

⑬ **Searching for a desired scene and starting playback from a specified time**
➲ For details, refer to *Searching for a specific scene and starting playback from a specified time* on the next page.

⑭ **Perform an operation (such as resuming) that is stored on the disc**
When using a DVD that has a point recorded that indicates where to return to, the DVD returns to the specified point and begins playback from that point.

⑮ **Change the viewing angle (Multi-angle)**
Each touch of [**Angle**] switches between viewing angles.
❒ During playback of a scene shot from multiple angles, the angle icon is displayed. Turn the angle icon display on or off using the "**DVD/DivX® Setup**" menu.
➲ For details, refer to *Setting the angle icon display* on page 101.

⑯ **Change the subtitle (Multi-subtitle)**
Each touch of [**S.Title**] switches between the subtitle languages.

⑰ **Change audio language and audio systems (Multi-audio)**
Each touch of [**Audio**] switches between audio languages and audio systems.
❒ DTS audio cannot be output, so select an audio setting other than DTS.
❒ Display indications such as **MPEG-A** and **Mch** indicate the audio system recorded on the DVD. Depending on the setting, playback may not use the same audio system as that indicated.

Resuming playback (Bookmark)

The Bookmark function lets you resume playback from a selected scene the next time the disc is loaded.

● **Touching [BookM.]:**
You can bookmark one point for each of up to five discs. If you try to memorize another point for the same disc, the oldest bookmark will be overwritten by the newest one.
❒ To clear the bookmark on a disc, touch and hold [**BookM.**].

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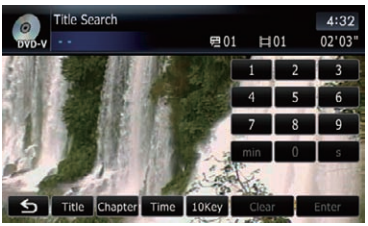
Searching for a specific scene and starting playback from a specified time

You can search for the scene you want by specifying a title or a chapter, and the time.

❒ Chapter search and time search are not possible when disc playback has been stopped.

1 Touch [Search] and then touch [Title] (title), [Chapter] (chapter), [Time] (time).



2 Touch the keys to input the target number or time and then touch [Enter].

For titles, chapters

- To select 3, touch [**3**] and [**Enter**] in order.
- To select 10, touch [**1**] and [**0**] and [**Enter**] in order.

For time (time search)

- To select 5 minutes 03 seconds, touch [**5**], [**min**], [**0**], [**3**] and [**Enter**] in order.
- To select 71 minutes 00 seconds, touch [**7**], [**1**], [**min**], [**0**], [**0**] and [**Enter**] in order.
- To select 100 minutes 05 seconds, touch [**1**], [**0**], [**0**], [**5**], [**s**] and [**Enter**] in order.

❒ To cancel an input number, touch [**Clear**]. To cancel the input numbers, touch and hold [**Clear**].

Direct number search

You can use this function when you need to enter a numerical command during DVD playback.

1 Touch [10Key].

2 Touch [0] to [9] to input the desired number.

3 While the input number is displayed, touch [Enter].

Operating the DVD menu

You can operate the DVD menu by touching the menu item on the screen directly.

❒ This function can be used when the key is displayed on the lower right corner of the LCD screen.

❒ This function may not work properly with some DVD disc content. In that case, use touch panel keys to operate the DVD menu.

❒ If you touch the screen while is displayed, the touch panel keys will not be displayed.

1 Touch the screen to display the touch panel keys.

2 Touch [Top Menu] or [Menu] to display touch panel keys to operate the DVD menu.

3 Touch the desired menu item.

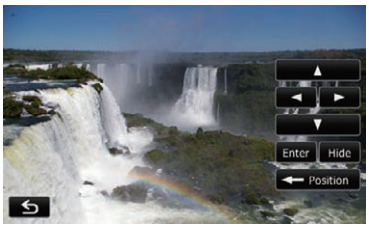
▪ Touch .

The touch panel keys to select the menu item are displayed.

Using DVD menu by touch panel keys

If items on the DVD menu appear, the touch panel keys may overlay them. If so, select an item using those touch panel keys.

1 Touch [▲], [▼], [◄] or [►] to select the desired menu item.



❒ If the touch panel keys for DVD menu selection disappear, touching anywhere on the screen, then touching displays them again.

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2 Touch [Enter].
Playback starts from the selected menu item. The way to display the menu differs depending on the disc.

- Touch [**Position**].

Each touch of [**Position**] changes the display position of touch panel keys.

- Touch [**Hide**].

The touch panel keys are hidden.
And is displayed, so you can select a menu item by touching the screen.

Frame-by-frame playback

This lets you move ahead one frame at a time during playback.

- **Touch [II►] during playback.**

Each time you touch [II►], you move ahead one frame.
To return to normal playback, touch [►/II].

❒ With some discs, images may be unclear during frame-by-frame playback.

Slow motion playback

This lets you slow down playback speed.

1 Touch and hold [II►] until ▪▪▸ is displayed during playback.
The icon ▪▪▸ is displayed, and forward slow motion playback begins.

❒ To return to normal playback, touch [►/II].

2 Touch [◄II] or [II►] to adjust playback speed during slow motion playback.
Each time you touch [◄II] or [II►] it changes the speed in four steps in the following order:
1/16 ↔ 1/8 ↔ 1/4 ↔ 1/2

❒ There is no sound during slow motion playback.
❒ With some discs, images may be unclear during slow motion playback.
❒ Reversed slow motion playback is not possible.

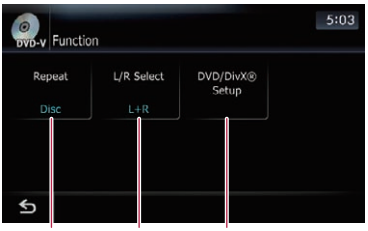
Using the "Function" menu

1 Touch [Disc] on the "AV Source" menu to display the "DVD-V" screen.

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

2 Touch the screen to display the touch panel keys.

3 Touch .



① **Repeating play**
Each touch of [**Repeat**] changes the setting as follows:

- **Disc** — Plays throughout the current disc
- **Title** — Repeats just the current title
- **Chapter** — Repeats just the current chapter

❒ If you perform chapter (title) search, fast forward/rewind or slow motion playback, the repeat play range changes to [**Disc**].
❒ This function is not available when disc playback has been stopped.

② **Selecting audio output**
When playing DVDs recorded with LPCM audio, you can switch the audio output. Touch [**L/R Select**] repeatedly until the desired audio output appears in the display. Each touch of [**L/R Select**] changes the settings as follows:

- **L+R** — Left and right
- **L** — Left
- **R** — Right
- **Mix** — Mixing left and right

❒ This function is not available when disc playback has been stopped.

③ **DVD setup adjustments**
➲ For details, refer to *Displaying* **DVD/DivX® Setup** *menu* on page 101.

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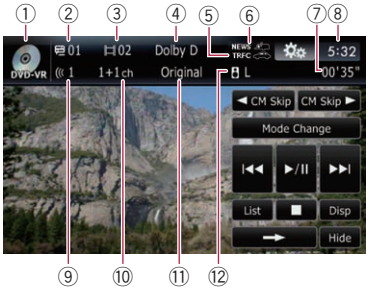
You can play a DVD-VR (DVD Video Recording Format) disc using the built-in drive of the navigation system. This section describes operations for DVD-VR discs.

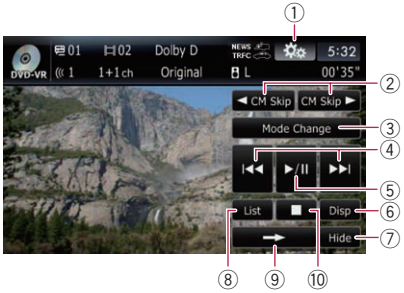
Reading the screen



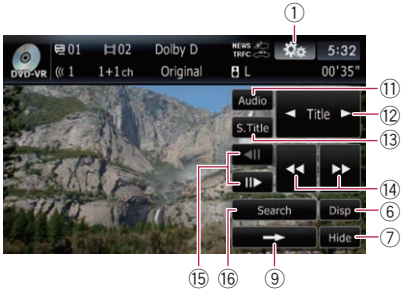
① **Source icon**
Shows which source has been selected.
② **Title number indicator**
Shows the title number currently playing.
③ **Chapter number indicator**
Shows the chapter currently playing.
④ **Digital sound format indicator**
Shows which digital sound format (surround sound format) has been selected.
⑤ **TRFC indicator**
Shows the status of traffic announcements.
⑥ **NEWS indicator**
Shows the status of news programmes.
⑦ **Play time indicator**
Shows the elapsed playing time within the current title.
⑧ **Current time**
⑨ **Audio track indicator**
Shows the audio track number currently selected.
⑩ **Audio channel indicator**
Shows the current audio channel type, such as "**Mch**" (Multi-channel).
⑪ **Play mode indicator**
Shows the current play mode.
➲ For details, refer to ***Switch the playback mode*** on the next page.
⑫ **Mixing condition indicator**
Shows the current mixing condition. ▣

Using the touch panel keys

Playback screen (page1)



Playback screen (page2)



❒ With some discs, the icon ⃠ may be displayed, meaning that the operation is not valid.

① **Display the "Function" menu**
➲ For details, refer to *Using the "**Function**" menu* on page 96.
② **◄ CM Skip/CM Skip ►**
➲ For details, refer to ***Using the short-time skip function*** on page 96.
③ **Switch the playback mode**
➲ For details, refer to ***Switch the playback mode*** on the next page.
④ **Skip forward or backward**
Touching [►►I] skips to the start of the next chapter. Touching [I◄◄] once skips to the start of the current chapter. Touching it again will skip to the previous chapter.
❒ You can also perform these operations by using the **TRK** (◄/►) button.
⑤ **Playback and Pause**
Touching [►/II] switches between playback and pause.

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⑥ **Switch the display**
Touching [**Disp**] changes the information as follows:
Disc information display — Repeat range display

⑦ **Hide the touch panel keys**
Touching [**Hide**] hides the touch panel keys. Touch anywhere on the LCD screen to display the touch panel keys again.

⑧ **Display the title list**
Displays the title list recorded on the disc.

⑨ **Switch next page of touch panel keys**

⑩ **Stop playback**

⑪ **Change audio tracks (Multi-audio)**
Each touch of [**Audio**] switches between audio tracks.
❒ Display indications such as **MPEG-A** and **Mch** indicate the audio system recorded on the DVD. Depending on the setting, playback may not use the same audio system as that indicated.

⑫ **Skip the title forward or backward**
Touching [►] skips to the start of the next title. Touching [◄] skips to the start of the previous title.

⑬ **Change the subtitle (Multi-subtitle)**
Each touch of [**S.Title**] switches between the subtitle languages.

⑭ **Fast reverse or forward**
Touch [◄◄] or [►►] to perform fast reverse or forward.
If you touch and hold [◄◄] or [►►] for five seconds, fast reverse/fast forward continues even if you release either of these keys. To resume playback at a desired point, touch [►/II], [◄◄] or [►►] opposite to key pushed for five seconds.

⑮ **Frame-by-frame playback (or slow-motion playback)**
➲ For details, refer to *Frame-by-frame playback* on the next page.
➲ For details, refer to *Slow motion playback* on the next page.

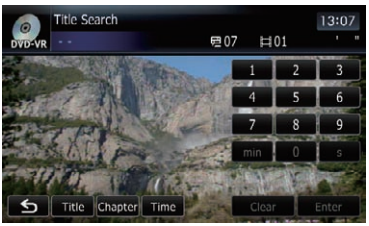
⑯ **Searching for a desired scene and starting playback from a specified time**
➲ For details, refer to *Searching for a specific scene and starting playback from a specified time* on this page.

Searching for a specific scene and starting playback from a specified time

You can search for the scene you want by specifying a title or a chapter, and the time.

❒ Chapter search and time search are not possible when disc playback has been stopped.

1 Touch [Search] and then touch [Title] (title), [Chapter] (chapter), [Time] (time).



2 Touch the keys to input the target number or time and then touch [Enter].

For titles, chapters

- To select 3, touch [**3**] and [**Enter**] in order.
- To select 10, touch [**1**] and [**0**] and [**Enter**] in order.

For time (time search)

- To select 5 minutes 03 seconds, touch [**5**], [**min**], [**0**], [**3**] and [**Enter**] in order.
- To select 71 minutes 00 seconds, touch [**7**], [**1**], [**min**], [**0**], [**0**] and [**Enter**] in order.
- To select 100 minutes 05 seconds, touch [**1**], [**0**], [**0**], [**5**], [**s**] and [**Enter**] in order.

❒ To cancel an input number, touch [**Clear**]. To cancel the input numbers, touch and hold [**Clear**].

Switch the playback mode

You have two methods for playing DVD-VR discs; **Original** (original) and **Playlist** (playlist).

❒ Titles created with DVD recorders are called original. Those based on original, rearranged titles are called playlist. Playlists are created on DVD-R/-RW discs.

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● **Touch [Mode Change] to switch the play mode.**
If the play mode is changed, playback starts from the beginning of the selected play mode.

Using the short-time skip function

This function enables you to skip over your specified interval on the video playback. This is useful to skip commercials on your recorded DVD-VR disc.

● **To skip progressively backward or forward, touch [◄ CM Skip] or [CM Skip ►].**
Each touch of [**◄ CM Skip**] or [**CM Skip ►**] changes steps in the following order:
◄ CM Skip
5 sec. — 15 sec. — 30 sec. — 1 min. — 2 min. — 3 min. — 0 sec.
CM Skip ►
30 sec. — 1 min. — 1.5 min. — 2 min. — 3 min. — 5 min. — 10 min. — 0 sec.

Playing by selecting from the title list

You can select and play the title you want from the list.

1 Touch [List] on the playback screen.

2 Touch the title to play from the list.

❒ Touching ∧ or ∨ switches the selection to the next or previous page in the list.

3 To return to the previous screen, touch [List].

Frame-by-frame playback

This lets you move ahead one frame at a time during playback.

● **Touch [II►] during playback.**
Each time you touch [II►], you move ahead one frame.
To return to normal playback, touch [►/II].
❒ With some discs, images may be unclear during frame-by-frame playback.

Slow motion playback

This lets you slow down playback speed.

1 Touch and hold [II►] until ▮◗ is displayed during playback.
The icon ▮◗ is displayed, and forward slow motion playback begins.
❒ To return to normal playback, touch [►/II].

2 Touch [◄II] or [II►] to adjust playback speed during slow motion playback.
Each time you touch [◄II] or [II►] it changes the speed in four steps in the following order:
1/16 ⟷ 1/8 ⟷ 1/4 ⟷ 1/2
❒ There is no sound during slow motion playback.
❒ With some discs, images may be unclear during slow motion playback.
❒ Reversed slow motion playback is not possible. ■

Using the "Function" menu

1 Touch [Disc] on the "AV Source" menu to display the "DVD-VR" screen.
➲ For details concerning operations, refer to *Screen switching overview* on page 18.

2 Touch the screen to display the touch panel keys.

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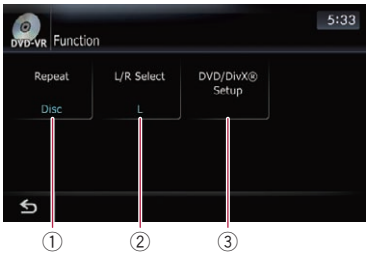
3 Touch .

Function menu



① **Repeating play**
Each touch of [**Repeat**] changes the setting as follows:
- **Title** — Repeats just the current title
- **Chapter** — Repeats just the current chapter
- **Disc** — Plays throughout the current disc

❒ If you perform chapter (title) search, fast forward/rewind or slow motion playback, the repeat play range changes to [**Disc**].
❒ This function is not available when disc playback has been stopped.

② **Selecting audio output**
When playing DVDs that both channels are recorded in monaural, you can switch the audio output. Touch [**L/R Select**] repeatedly until the desired audio output appears in the display.
- **L+R** — Left and right
- **L** — Left
- **R** — Right
- **Mix** — Mixing left and right

❒ This function is not available when disc playback has been stopped.

③ **DVD setup adjustments**
➲ For details, refer to *Displaying* **DVD/ DivX® Setup** *menu* on page 101.

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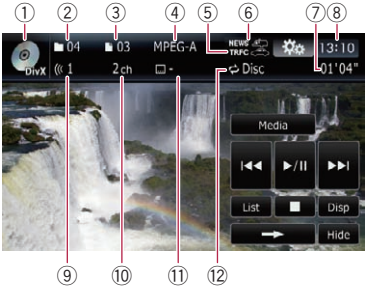
You can play a DivX disc using the built-in drive of the navigation system. This section describes that operations.

Reading the screen



① **Source icon**
Shows which source has been selected.

② **Folder number indicator**
Shows the folder number currently playing.

③ **File number indicator**
Shows the file number currently playing.

④ **Digital sound format indicator**
Shows the digital sound format (surround sound format) currently selected.

⑤ **TRFC indicator**
Shows the status of traffic announcements.

⑥ **NEWS indicator**
Shows the status of news programmes.

⑦ **Play time indicator**
Shows the elapsed playing time of the current file.

⑧ **Current time**

⑨ **Audio track indicator**
Shows the audio track number currently selected.

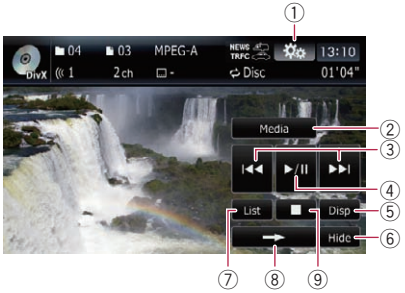
⑩ **Audio channel indicator**
Shows the current audio channel type, such as "**Mch**" (Multi-channel).

⑪ **Subtitle number indicator**
Shows the subtitle number currently selected.

⑫ **Repeat range indicator**
Shows which repeat range has been selected.

Using the touch panel keys

Playback screen (page1)



Playback screen (page2)

❒ With some discs, the icon ⃠ may be displayed, meaning that the operation is not valid.

① **Display the "Function" menu**
➲ For details, refer to *Using the "**Function**" menu* on page 100.

② **Switch the media file type played**
When playing a disc containing a mixture of various media file types, you can switch between media files types to play.
Touch [**Media**] repeatedly to switch between the following media file types:
CD (audio data (CD-DA)) — **ROM** (compressed audio file) — **DivX** (DivX video files)
❒ This touch panel key appears only when playing a disc containing a mixture of various media file types.

③ **Skip forward or backward**
Touching [▶▶I] skips to the start of the next file. Touching [I◀◀] once skips to the start of the current file. Touching again will skip to the previous file.

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❒ You can also perform these operations by using the **TRK** (◀/▶) button.

④ **Playback and Pause**
Touching [▶/❚❚] switches between playback and pause.

⑤ **Switch the information**
Touching [**Disp**] changes the content of the information panel as follows:
Disc information display — Current folder display — File name display

⑥ **Hide the touch panel keys**
Touching [**Hide**] hides the touch panel keys. Touch anywhere on the LCD screen to display the touch panel keys again.

⑦ **Display the title list**
Displays the title list recorded on the disc.

⑧ **Switch next page of touch panel keys**

⑨ **Stop playback**

⑩ **Change audio tracks (Multi-audio)**
Each touch of [**Audio**] switches between audio tracks.

⑪ **Change the subtitle (Multi-subtitle)**
Each touch of [**S.Title**] switches between the subtitle languages.

⑫ **Fast reverse or forward**
Touch [◀◀] or [▶▶] to perform fast reverse or forward.
If you touch and hold [◀◀] or [▶▶] for five seconds, fast reverse/fast forward continues even if you release either of these keys. To resume playback at a desired point, touch [▶/❚❚], [◀◀] or [▶▶] opposite to key pushed for five seconds.

⑬ **Frame-by-frame playback (or slow-motion playback)**
➲ For details, refer to *Frame-by-frame playback* on this page.
➲ For details, refer to *Slow motion playback* on this page.

⑭ **Searching for a desired scene and starting playback from a specified time**
➲ For details, refer to *Searching for a specific scene and starting playback from a specified time* on this page.

Frame-by-frame playback

This lets you move ahead one frame at a time during playback.

● **Touch [❚❚▶] during playback.**
Each time you touch [❚❚▶], you move ahead one frame.
To return to normal playback, touch [▶/❚❚].
❒ With some discs, images may be unclear during frame-by-frame playback.

Slow motion playback

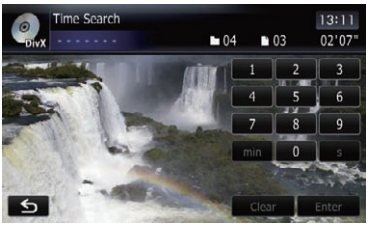
This lets you slow down playback speed.

● **Touch and hold [❚❚▶] until ▮▮▸ is displayed during playback.**
The icon ▮▮▸ is displayed, and forward slow motion playback begins.
❒ To return to normal playback, touch [▶▶] or [◀◀], etc.
❒ There is no sound during slow motion playback.
❒ With some discs, images may be unclear during slow motion playback.
❒ Reversed slow motion playback is not possible.

Searching for a specific scene and starting playback from a specified time

You can search for a desired scene by specifying the time.
❒ Time search are not possible when disc playback has been stopped.

1 Touch [Search].



2 Touch the keys to input the target number or time and then touch [Enter].
For time (time search)
• To select 5 minutes 03 seconds, touch [**5**], [**min**], [**0**], [**3**] and [**Enter**] in order.

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- To select 71 minutes 00 seconds, touch [**7**], [**1**], [**min**], [**0**], [**0**] and [**Enter**] in order.
- To select 100 minutes 05 seconds, touch [**1**], [**0**], [**0**], [**5**], [**s**] and [**Enter**] in order.

❒ To cancel an input number, touch [**Clear**]. To cancel the input numbers, touch and hold [**Clear**].

Playing by selecting from the title list

You can select and play the title you want from the list.

1 Touch [List] on the playback screen.
The contents of the folder in which the currently playing file is located are displayed.

2 Touch the title to play from the list.

❒ Touching ∧ or ∨ switches the selection to the next or previous page in the list.

3 To return to the previous screen, touch [List].

Using the "Function" menu

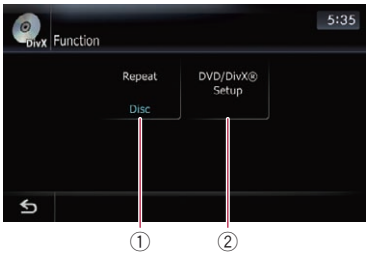
1 Touch [Disc] on the "AV Source" menu to display the "DivX" screen.

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

2 Touch the screen to display the touch panel keys.

3 Touch .

Function menu



① **Repeating play**
Each touch of [**Repeat**] changes the setting as follows:
- **File** — Repeat just the current file
- **Folder** — Repeat just the current folder
- **Disc** — Plays throughout the current disc

❒ If you select another folder during repeat play, the repeat play range changes to [**Disc**].

❒ If you perform fast forward/rewind during [**File**], the repeat play range changes to [**Folder**].

❒ When [**Folder**] is selected, it is not possible to play back a subfolder of that folder.

❒ When playing discs with compressed audio files and audio data (CD-DA), repeat play is performed within DivX videos even if [**Disc**] is selected.

② **DVD setup adjustments**

➲ For details, refer to *Displaying* **DVD/DivX® Setup** *menu* on the next page.

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Configure the DVD-Video/DVD-VR/DivX player.

Displaying DVD/DivX® Setup menu

1 Play the disc that contains DVD-Video, DVD-VR or DivX.

2 Touch [Disc] on the "AV Source" menu to display the normal playback screen.

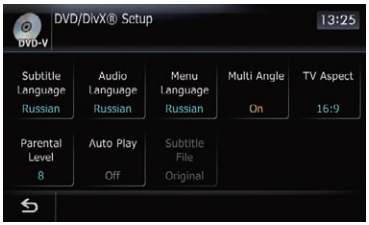
➲ For details concerning operations, refer to *Screen switching overview* on page 18.

3 Touch .

The "**Function**" menu appears.

4 Touch [DVD/DivX® Setup].

The "**DVD/DivX® Setup**" screen appears.



5 Touch the desired function.

Setting the top-priority languages

You can assign the top-priority language to the top-priority subtitle, audio and menu in initial playback. If the selected language is recorded on the disc, subtitles, audio and menu are displayed or output in that language.

1 Display the "DVD/DivX® Setup" screen.

➲ For details, refer to *Displaying* **DVD/DivX® Setup** *menu* on this page.

2 Touch [Subtitle Language], [Audio Language] or [Menu Language].

Each language menu is displayed and the currently set language is selected.

3 Touch the desired language.

When you select [**Others**], a language code input display is shown. Input the four digit code of the desired language then touch [**Enter**].

➲ Refer to *Language code chart for DVDs* on page 104.

❒ If the selected language is not recorded on the disc, the default language specified on the disc is output and displayed.

❒ You can also switch the subtitle and audio language by touching [**S.Title**] or [**Audio**] during playback.

❒ Even if you use [**S.Title**] or [**Audio**] to switch the subtitle or audio language, this does not affect the settings here.

Setting the angle icon display

You can set the angle icon to display in scenes where the angle can be switched.

1 Display the "DVD/DivX® Setup" screen.

➲ For details, refer to *Displaying* **DVD/DivX® Setup** *menu* on this page.

2 Touch [Multi Angle].

Touching [**Multi Angle**] switches between [**On**] and [**Off**].

Setting the aspect ratio

There are two kinds of displays. A wide screen display has a width-to-height ratio (TV aspect) of 16:9, while a regular display has a TV aspect of 4:3. If you use a regular rear display with a TV aspect of 4:3, you can set the aspect ratio suitable for your rear display. (We recommend use of this function only when you want to fit it to the rear display.)

❒ When using a regular display, select either "**Letter Box**" or "**Panscan**". Selecting "**16:9**" may result in an unnatural picture.

1 Display the "DVD/DivX® Setup" screen.

➲ For details, refer to *Displaying* **DVD/DivX® Setup** *menu* on this page.

2 Touch [TV Aspect].

Each touch of [**TV Aspect**] changes the setting as follows:

- **16:9** — Wide screen picture (16:9) is displayed as it is (initial setting)

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- **Letter Box** — The picture is in the shape of a letter box with black bands at the top and bottom of the screen
- **Panscan** — The picture is cut short at the right and left of the screen

❒ When playing discs that do not have a pan-scan system, the disc is played back with [**Letter Box**] even if you select [**Panscan**] setting. Confirm whether the disc package bears the 16:9 LB mark.

❒ Some discs do not enable changing of the TV aspect. For details, refer to the disc's instructions.

Setting the parental lock

Some DVD-Video discs let you use parental lock to set restrictions so that children cannot watch violent or adult-oriented scenes. You can set the parental lock level in steps as desired.

❒ When you set a parental lock level and then play a disc featuring parental lock, code number input indications may be displayed. In this case, playback will begin when the correct code number is input.

Setting the code number and level

When you first use this function, register your code number. If you do not register a code number, parental lock will not operate.

1 Display the "DVD/DivX® Setup" screen.

➲ For details, refer to *Displaying* **DVD/DivX® Setup** *menu* on the previous page.

2 Touch [Parental Level].

3 Touch [0] to [9] to input a four digit code number.

4 While the input number is displayed, touch [Enter].

The code number is registered, and you can now set the level.

5 Touch any of [1] to [8] to select the desired level.

The parental lock level is set.

- **Level 8** — Playback of the entire disc is possible (initial setting)
- **Level 7** to **Level 2** — Playback of discs for children and non-adult oriented discs is possible
- **Level 1** — Only playback of discs for children is possible

❒ If you want to change the parental level already set, enter the registered code number and then select the parental level.

❒ We recommend that you keep a record of your code number in case you forget it.

❒ The parental lock level is recorded on the disc. You can confirm it by looking at the disc package, the included literature or the disc itself. You cannot use parental lock with discs that do not feature a recorded parental lock level.

❒ With some discs, parental lock operates to skip certain scenes only, after which normal playback resumes. For details, refer to the disc's instructions.

❒ If you forget the registered code number, touch ◀ 10 times on the number input screen. The registered code number is cancelled, letting you register a new one.

Setting "Auto Play"

When a DVD disc with DVD menu is inserted, this unit will cancel the DVD menu automatically and start playback from the first chapter of the first title.

❒ This function is available for DVD-Video.

❒ Some DVDs may not operate properly. If this function is not fully operable, turn this function off and start playback.

1 Display the "DVD/DivX® Setup" screen.

➲ For details, refer to *Displaying* **DVD/DivX® Setup** *menu* on the previous page.

2 Touch [Auto Play].

Touching [**Auto Play**] switches this setting between [**On**] and [**Off**].

❒ When [**Auto Play**] is set to [**On**], the repeat range is automatically set to [**Disc**].

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Setting the subtitle file for DivX

You can select whether to display DivX external subtitles or not.

❒ If no DivX external subtitle files exist, the original DivX subtitles are displayed even when [**Custom**] is selected.

1 Display the "DVD/DivX® Setup" screen.

➲ For details, refer to *Displaying* **DVD/DivX® Setup** *menu* on page 101.

2 Touch [Subtitle File].

Touching [**Subtitle File**] switches this setting between [**Original**] and [**Custom**].

❒ Up to 42 characters can be displayed on one line. If more than 42 characters are set, the line breaks and the characters are displayed on the next line.

❒ Up to 126 characters can be displayed on one screen. If more than 126 characters are set, the excess characters will not be displayed.

❒ The DivX subtitles will be displayed even when the subtitle file setting is on if no corresponding subtitle files exist.

❒ Up to three lines can be displayed at once. ■

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Language code chart for DVDs

Language (code), input code	Language (code), input code	Language (code), input code
Japanese (ja), 1001	Guarani (gn), 0714	Pashto, Pushto (ps), 1619
English (en), 0514	Gujarati (gu), 0721	Quechua (qu), 1721
French (fr), 0618	Hausa (ha), 0801	Rhaeto-Romance (rm), 1813
Spanish (es), 0519	Hindi (hi), 0809	Kirundi (rn), 1814
German (de), 0405	Croatian (hr), 0818	Rumanian (ro), 1815
Italian (it), 0920	Hungarian (hu), 0821	Kinyarwanda (rw), 1823
Chinese (zh), 2608	Armenian (hy), 0825	Sanskrit (sa), 1901
Dutch (nl), 1412	Interlingua (ia), 0901	Sindhi (sd), 1904
Portuguese (pt), 1620	Interlingue (ie), 0905	Sango (sg), 1907
Swedish (sv), 1922	Inupiak (ik), 0911	Serbo-Croatian (sh), 1908
Russian (ru), 1821	Indonesian (in), 0914	Shinghalese (si), 1909
Korean (ko), 1115	Icelandic (is), 0919	Slovak (sk), 1911
Greek (el), 0512	Hebrew (iw), 0923	Slovenian (sl), 1912
Afar (aa), 0101	Yiddish (ji), 1009	Samoan (sm), 1913
Abkhazian (ab), 0102	Javanese (jw), 1023	Shona (sn), 1914
Afrikaans (af), 0106	Georgian (ka), 1101	Somali (so), 1915
Amharic (am), 0113	Kazakh (kk), 1111	Albanian (sq), 1917
Arabic (ar), 0118	Greenlandic (kl), 1112	Serbian (sr), 1918
Assamese (as), 0119	Cambodian (km), 1113	Siswati (ss), 1919
Aymara (ay), 0125	Kannada (kn), 1114	Sesotho (st), 1920
Azerbaijani (az), 0126	Kashmiri (ks), 1119	Sundanese (su), 1921
Bashkir (ba), 0201	Kurdish (ku), 1121	Swahili (sw), 1923
Belorussian (be), 0205	Kirghiz (ky), 1125	Tamil (ta), 2001
Bulgarian (bg), 0207	Latin (la), 1201	Telugu (te), 2005
Bihari (bh), 0208	Lingala (ln), 1214	Tajik (tg), 2007
Bislama (bi), 0209	Laotian (lo), 1215	Thai (th), 2008
Bengali, Bangla (bn), 0214	Lithuanian (lt), 1220	Tigrinya (ti), 2009
Tibetan (bo), 0215	Latvian, Lettish (lv), 1222	Turkmen (tk), 2011
Breton (br), 0218	Malagasy (mg), 1307	Tagalog (tl), 2012
Catalan (ca), 0301	Maori (mi), 1309	Setswana (tn), 2014
Corsican (co), 0315	Macedonian (mk), 1311	Tongan (to), 2015
Czech (cs), 0319	Malayalam (ml), 1312	Turkish (tr), 2018
Welsh (cy), 0325	Mongolian (mn), 1314	Tsonga (ts), 2019
Danish (da), 0401	Moldavian (mo), 1315	Tatar (tt), 2020
Bhutani (dz), 0426	Marathi (mr), 1318	Twi (tw), 2023
Esperanto (eo), 0515	Malay (ms), 1319	Ukrainian (uk), 2111
Estonian (et), 0520	Maltese (mt), 1320	Urdu (ur), 2118
Basque (eu), 0521	Burmese (my), 1325	Uzbek (uz), 2126
Persian (fa), 0601	Nauru (na), 1401	Vietnamese (vi), 2209
Finnish (fi), 0609	Nepali (ne), 1405	Volapük (vo), 2215
Fiji (fj), 0610	Norwegian (no), 1415	Wolof (wo), 2315
Faroese (fo), 0615	Occitan (oc), 1503	Xhosa (xh), 2408
Frisian (fy), 0625	Oromo (om), 1513	Yoruba (yo), 2515
Irish (ga), 0701	Oriya (or), 1518	Zulu (zu), 2621
Scottish Gaelic (gd), 0704	Panjabi (pa), 1601	
Galician (gl), 0712	Polish (pl), 1612	

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You can play the compressed audio files stored in the external storage device (USB, SD).

❒ In the following description, the SD memory card and USB memory device are collectively referred to as the "external storage device (USB, SD)". If it indicates the USB memory device only, it is referred to as the "USB storage device".

Starting procedure

1 Insert the SD memory card into the SD card slot or plug the USB storage device into the USB connector.

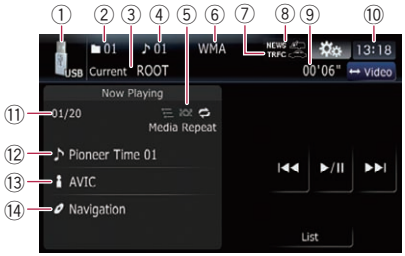
➲ For details, refer to *Plugging in a USB storage device* on page 15.

➲ For details, refer to *Inserting and ejecting an SD memory card* on page 13.

2 Touch [USB] or [SD] on the "AV Source" menu to display the "USB" or "SD" screen.

❒ Playback is performed in order of folder number. Folders are skipped if they contains no playable files. (If there are no playable files in folder 01 (root folder), playback starts from folder 02.) ■

Reading the screen



❒ This unit may not achieve optimum performance with some external storage devices.

❒ You can playback the files on a USB storage device compliant with Mass Storage Class. For details about the USB Class, refer to the manual supplied with USB storage device.

① **Source icon**
Shows which source has been selected.

② **Folder number indicator**

③ **Current folder name indicator**
Shows the folder name currently playing.

④ **File number indicator**

⑤ **Playback condition indicator**
The marks shown below appears and indicates the current playback condition.

: Scan play

: Random play

: Repeat play

Indicator	Meaning
Media Repeat	All audio files in the current external storage device (USB, SD) are played repeatedly. This is the default condition.
Folder Repeat	All audio files in the current folder are played repeatedly.
Track Repeat	The current file is played repeatedly.
Media Random	All audio files in the current external storage device (USB, SD) are played in random order.
Folder Random	All audio files in the current folder are played in random order.
Media Scan	The beginning of the first audio files of each folder is played for about 10 seconds.
Folder Scan	The beginning of each track in the current folder is played for about 10 seconds.

➲ For more information, refer to *Using the "**Function**" menu* on page 107.

⑥ **File type indicator**
Shows the type of audio file currently playing.

⑦ **TRFC indicator**
Shows the status of traffic announcements.

⑧ **NEWS indicator**
Shows the status of news programmes.

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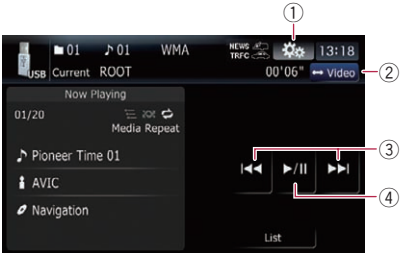
⑨ **Play time indicator**
Shows the elapsed playing time within the current track.
⑩ **Current time**
⑪ **Current file number and total number of files**
Shows the file number currently played and the total number of playable audio files.
⑫ **Track title indicator**
Shows the title of the track currently playing (when available).
❒ If the title of a track is not available, the file name appears.
⑬ **Artist name indicator***
Shows the artist name currently playing (when available).
⑭ **Album title indicator***
Shows the title of the album for the current track (when available).
❒ The information marked with an asterisk (*) is displayed only when the information has been encoded on the compressed audio files. If specific information has not been encoded on the files, "—" is displayed instead.

Using the touch panel keys (Music)



① **Display the "Function" menu**
➲ For details, refer to *Using the "**Function**" menu* on the next page.
② **Switch the operation screen**
Touching this key switches between the screen to operate music files and the screen to operate video files. This touch panel key is available only when there are both audio and video files in the external storage device (USB, SD).
③ **Skip forward or backward**
Touching [►►I] skips to the start of the next file. Touching [I◄◄] once skips to the start of the current file. Touching again will skip to the previous file.
Fast reverse or forward
Touch and hold [I◄◄] or [►►I] to fast rewind or fast forward.
❒ There is no sound on fast reverse or forward.
❒ You can also perform these operations by using the **TRK** (◄/►) button.
④ **Playback and Pause**
Touching [►/II] switches between playback and pause.

Selecting a track from the list

The list lets you see the list of track titles or folder names on an external storage device (USB, SD). Touch a folder on the list to view its contents. Touch a track on the list to play that track.

1 Touch [List].
The contents of the folder in which the currently playing file is located are displayed.
■ Touch and hold [**List**].
The contents of the root folder are displayed.

2 Touch the folder that you want to view.

The track currently playing is highlighted. Touching ⩓ or ⩔ switches the selection to the next or previous page in the list.

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Touching [↑] displays the content of the upper folder (parent folder). If the uppermost folder is listed, [↑] cannot be used.

3 Touch the track you want to play.

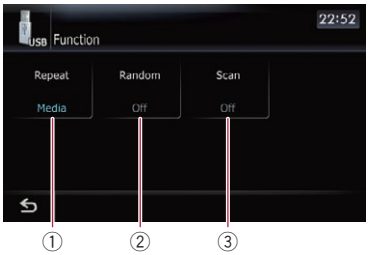
❒ To cancel the list screen, touch [**Detail**]. ■

Using the "Function" menu

1 Touch [USB] or [SD] on the "AV Source" menu to display the "USB" or "SD" screen.

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

2 Touch [⚙].



① **Repeating play**

Each touch of [**Repeat**] changes the setting as follows:

- **Media** — Repeat all compressed audio files in the selected external storage device (USB, SD)
- **Track** — Repeat just the current track
- **Folder** — Repeat the current folder

❒ If you skip the file forward or backward when the repeat play range in "**Track**", the repeat play range changes to "**Folder**".

② **Play tracks in a random order**

Random play lets you playback tracks in random order within the current repeat range.

Touching [**Random**] switches between "**On**" and "**Off**".

❒ If you turn [**Random**] to "**On**" while the repeat play range is set to "**Track**", the repeat play range changes to "**Folder**" automatically.

③ **Scan folders and tracks**

Scan play lets you hear the first 10 seconds of each track. Scan play is performed in the current repeat play range.

Touching [**Scan**] switches between "**On**" and "**Off**". When you find the track you want, touch [**Scan**] to turn scan play off.

❒ After all tracks or folders scanning are finished, normal playback will begin again.

❒ If you turn [**Scan**] to "**On**" while the repeat play range is set to "**Track**", the repeat play range changes to "**Folder**" automatically. ■

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You can play the video files stored in the external storage device (USB, SD).

❒ In the following description, the SD memory card and USB memory device are collectively referred to as the "external storage device (USB, SD)". If it indicates the USB memory device only, it is referred to as the "USB storage device".

Starting procedure

1 Insert the SD memory card into the SD card slot or plug the USB storage device into the USB connector.

➲ For details, refer to *Plugging in a USB storage device* on page 15.

➲ For details, refer to *Inserting and ejecting an SD memory card* on page 13.

2 Touch [USB] or [SD] on the "AV Source" menu to display each operation screen.

❒ Playback is performed in order of folder number. Folders are skipped if they contains no playable files. (If there are no playable files in folder 01 (root folder), playback starts from folder 02.) ■

Reading the screen

❒ This unit may not achieve optimum performance with some external storage devices.

❒ You can playback the files on a USB storage device compliant with Mass Storage Class. For details about the USB Class, refer to the manual supplied with USB storage device.

① **Source icon**
Shows which source has been selected.

② **Folder number indicator**

③ **Current folder name indicator**
Shows the folder name currently playing.

④ **File number indicator**

⑤ **File type indicator**
Shows the type of audio file currently playing.

⑥ **TRFC indicator**
Shows the status of traffic announcements.

⑦ **NEWS indicator**
Shows the status of news programmes.

⑧ **Play time indicator**
Shows the elapsed playing time within the current track.

⑨ **Current time** ■

Using the touch panel keys (Video)

① **Display the "Function" menu**
➲ For details, refer to *Using the "***Function***" menu* on page 110.

② **Switch the operation screen**
Touching this key switches between the screen to operate music files and the screen to operate video files. This touch panel key is available only when there are both audio and video files in the external storage device (USB, SD).

③ **Searching for a desired scene and starting playback from a specified time**

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➲ For details, refer to *Searching for a specific scene and starting playback from a specified time* on this page.

④ **Skip forward or backward**
Touching [▶▶I] skips to the start of the next file. Touching [I◀◀] once skips to the start of the current file. Touching again will skip to the previous file.

Fast reverse or forward
Touch and hold [I◀◀] or [▶▶I] to fast rewind or fast forward.

❒ There is no sound on fast reverse or forward.

❒ You can also perform these operations by using the **TRK** (◀/▶) button.

⑤ **Playback and Pause**
Touching [▶/II] switches between playback and pause.

⑥ **Hide the touch panel keys**
Touching [**Hide**] hides the touch panel keys. Touch anywhere on the LCD screen to display the touch panel keys again.

⑦ **Stop playback**

⑧ **Display the title list**
Displays the title list recorded on the external storage device (USB, SD).

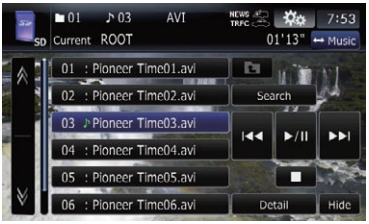
Playing by selecting from the title list

You can select and play the title you want from the list.

1 Touch [List] on the playback screen.
The contents of the folder in which the currently playing file is located are displayed.

■ Touch and hold [**List**].
The contents of the root folder are displayed.

2 Touch the title to play from the list.



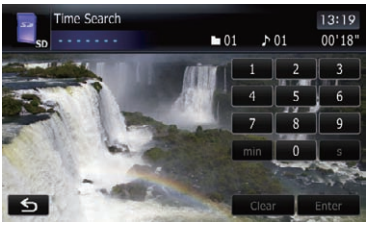
❒ Touching ▲ or ▼ switches the selection to the next or previous page in the list.

3 To return to the previous screen, touch [Detail].

Searching for a specific scene and starting playback from a specified time

You can search for a desired scene by specifying the time.

1 Touch [Search].



2 Touch the keys to input the target number or time and then touch [Enter].

- To select 5 minutes 03 seconds, touch [**5**], [**min**], [**0**], [**3**] and [**Enter**] in order.
- To select 71 minutes 00 seconds, touch [**7**], [**1**], [**min**], [**0**], [**0**] and [**Enter**] in order.
- To select 100 minutes 05 seconds, touch [**1**], [**0**], [**0**], [**5**], [**s**] and [**Enter**] in order.

❒ To cancel an input number, touch [**Clear**]. To cancel the input numbers, touch and hold [**Clear**]. ■

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Using the "Function" menu

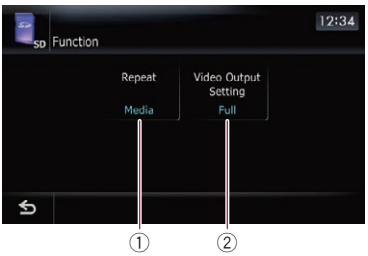
1 Touch [USB] or [SD] on the "AV Source" menu to display the "USB" or "SD" screen.

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

2 Touch the screen to display the touch panel keys.

3 Touch .

❒ If the touch panel keys are not shown, touch anywhere on the screen to display them.



① **Repeating play**
Each touch of [**Repeat**] changes the setting as follows:

- **Media** — Repeat all video files in the selected external storage device (USB, SD)
- **File** — Repeat just the current file
- **Folder** — Repeat the current folder

❒ If you skip the file forward or backward when the repeat play range in "**File**", the repeat play range changes to "**Folder**".

② Changing the screen size of video
If a video file is played, you can select the display mode between normal and full screen.
Each touch of [**Video Output Setting**] changes the setting as follows:

- **Normal** — Video files appear in normal size.
- **Full** — Video files appear in a full-screen. ■

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Using the USB interface cable for iPod enables you to connect your iPod to the navigation system.

❒ A USB interface cable for iPod (CD-IU50V) (sold separately) is required for connection.

Starting procedure

● **Connect your iPod.**

The source changes and then playback will start.

➲ For details, refer to *Connecting your iPod* on page 15.

❒ If the iPod is already connected, touch [**iPod**] on the "**AV Source**" menu.

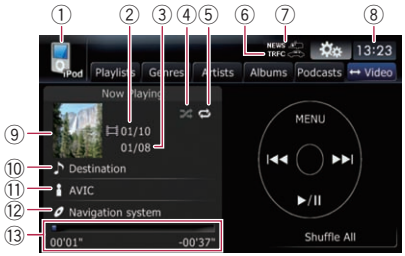
➲ For details concerning operations, refer to *Screen switching overview* on page 18.

❒ No video output if iPod is selected as AV source, check the setting in "**AV1 Input**" on the "**AV System Settings**" menu.

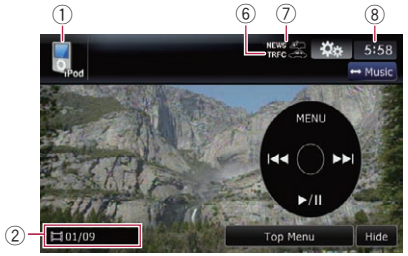
➲ For details, refer to *Setting video input 1 (**AV1**)* on page 124.

Reading the screen

Music



Video



① **Source icon**
Shows which source has been selected.

② **Chapter number indicator**
Shows the current chapter number and total number of chapters when the file with chapters played.

③ **Song number indicator**
Shows the number of the song currently playing and total number of songs in the selected list.

④ **Shuffle play indicator**
Appears when shuffle play is activated.

⑤ **Repeat play indicator**
Appears when repeat play is activated.
: All-tracks repeat
: One-track repeat

⑥ **TRFC indicator**
Shows the status of traffic announcements.

⑦ **NEWS indicator**
Shows the status of news programmes.

⑧ **Current time**

⑨ **Album artwork**
Album art of the current song is displayed if it is available.

⑩ **Song title (episode) indicator**
Shows the title of the current song. When a podcast is played, the episode is displayed.

⑪ **Artist name (podcast title) indicator**
Shows the artist name currently playing. When a podcast is played, the podcast title is displayed.

⑫ **Album title (release date) indicator**
Shows the title of the album for the song. When a podcast is played, the release date is displayed.

⑬ **Play time indicator**

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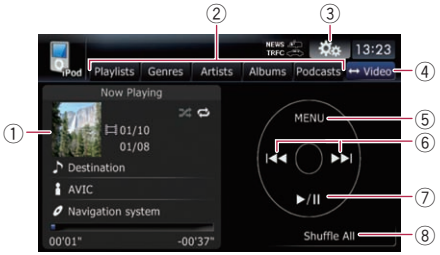
Shows the elapsed playing time within the current song.

❒ If characters recorded on the iPod are not compatible with this navigation system, they may turn into garbled characters. ■

Using the touch panel keys (Music)



① **Album artwork**
Touch the key to enlarge the album artwork. If you touch again, the artwork returns to its normal size.

② **Category tabs**
Shows the list to narrow down the songs. If you want to use the list of "**Audiobooks**", "**Composers**" or "**Songs**", touch [**MENU**] to display the lists.

③ **Display the "Function" menu**
➲ For details, refer to *Using the "**Function**" menu* on page 115.

④ **Switch the operation screen**
Touching this key switches between the screen to operate music files and the screen to operate video files. After you touch the key, the top category menu appears to let you select the item for playback.
❒ This touch panel key is available only when there are both audio and video file in your iPod.
❒ If iPod fifth generation is connected, the following settings are automatically changed when the operation screen is switched to the screen to operate video files.
- [**Repeat**] is set to [**All**].
- [**Shuffle**] is set to [**Off**].

⑤ **Display the top category menu**
Touching the key displays the top category before you use the category tabs. If you select the song using the category tabs to play, touching the key displays the previous list.

⑥ **Skip back or forward to another song**
Touching [►►I] skips to the start of the next song. Touching [I◄◄] once skips to the start of the current song. Touching again will skip to the previous song. When the track with chapters played, chapter can be skipped back and forward.
Fast reverse or forward
Touch and hold [I◄◄] or [►►I] to fast rewind or fast forward.
❒ You can also perform these operations by using the **TRK** (◄/►) button.

⑦ **Playback and Pause**
Touching [►/II] switches between playback and pause.

⑧ **Shuffle All**
All songs (except for the track in "**Audiobooks**" and "**Podcasts**") in your iPod can be played randomly.
❒ To cancel the random play, switch [**Shuffle**] on the "**Function**" menu to the "**Off**".

Browsing for a song

Touch an item on list to search for a song and play it on your iPod.

Narrowing down listed songs

1 Touch your desired category tab to display the song or track list.
- **Playlists** (playlists)
- **Genres** (genres)
- **Artists** (artists)
- **Albums** (albums)
- **Podcasts** (podcasts)

The search screen is displayed.

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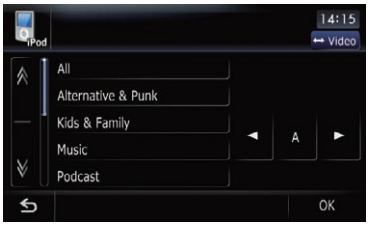

2 Touching [∧] or [∨] switches the selection to the next or previous page in the list.

3 Touch the item that you want to refine.

Refine the item until the track title is displayed on the list.

- ❒ Touching [**All**] on the list includes all options in the current list. For example, if you touch [**All**] after touching [**Artists**], you can proceed to the next screen with all artists in the list selected.
- ❒ After you select **Artists**, **Albums**, or **Genres**, go on to touch one of the list to start playing the first songs in the selected list and display the next options.

▪ Touch and hold the item that you want to refine.

Plays back the files related to the touched item.

4 On the song (or episode) list, touch the track you want to play.

- ❒ After you select the track using this function, touching [**MENU**] displays the list previously selected.

Searching for applicable items alphabetically

Using the search control displays the page which includes the first applicable option.

- ❒ This function is available for the alphabetical list only.

Search control

1 Touch your desired category tab to display the list.

2 Touch the item that you want to refine.

3 Touch [◄] or [►] to select the character.

- ❒ An article listed below and space at the beginning of the artist name will be ignored and the next character will be taken into account for searching.
  - — “A” or “a”
  - — “AN”, “An”, or “an”
  - — “THE”, “The”, or “the”

4 Touch the character key to display the page which includes applicable options.

5 On the song (or episode) list, touch the track you want to play.

Operating this navigation system's iPod function from your iPod

This navigation system’s iPod function can be operated from your iPod. Sound can be heard from the car’s speakers, and operation can be conducted from your iPod.

This function can be operated with the following iPod models:

Even if [**Change Control Mode**] is set to [**iPod**], following functions are available from this navigation system.

- Playback and Pause
- Fast reverse or forward
- Skip forward or backward

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- Adjusting the volume

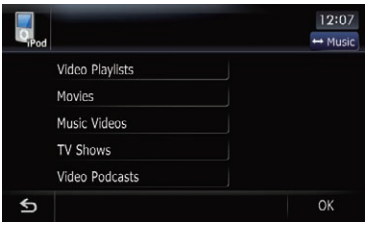
➲ For details, refer to ***Setting iPod control mode*** on page 116.

Starting the video playback

This navigation system can play video if an iPod with video capabilities is connected.

1 Touch [Video].

2 Touch one of the categories in that contains the video you want to play.



Video playback will start.

3 Touch your desired item on the list to narrow down them until the video list appears.

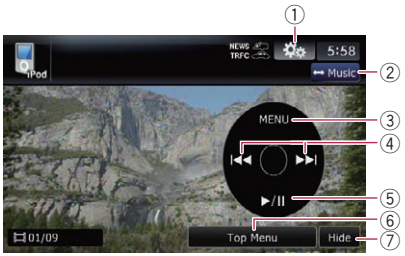
➲ For details concerning operations, refer to *Browsing for a video* on the next page.

4 On the video list, touch the video you want to play.

5 Touch the screen to display the touch panel keys.

➲ For more details of the operation, refer to *Using the touch panel keys* (**Video**) on this page.

Using the touch panel keys (Video)



① **Display the "Function" menu**

➲ For details, refer to *Using the "**Function**" menu* on the next page.

② **Switch the operation screen**

Touching this key switches between the screen to operate music files and the screen to operate video files. After you touch the key, the top category menu appears to let you select the item for playback.

❒ This touch panel key is available only when there are both audio and video file in your iPod.

③ **Display the previous selected list**

If you select the video from the list to play after touching **Top Menu**, touching the key displays the previous list.

④ **Skip back or forward to another song**

Touching [▶▶I] skips to the start of the next video. Touching [I◀◀] once skips to the start of the current video. Touching again will skip to the previous video. When the video with chapters played, chapter can be skipped back and forward.

Fast reverse or forward

Touch and hold [I◀◀] or [▶▶I] to fast rewind or fast forward.

If you touch and hold [I◀◀] or [▶▶I] for five seconds, fast reverse/fast forward continues even if you release either of these keys. To resume playback at a desired point, touch [▶/II], [I◀◀] or [▶▶I].

❒ You can also perform these operations by using the **TRK** (◀/▶) button.

⑤ **Playback and Pause**

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Touching [▶/II] switches between playback and pause.

⑥ **Display the top category menu for video**
Touching the key displays the top category for video playback.

⑦ **Hide the touch panel keys**
Touching [**Hide**] hides the touch panel keys. Touch anywhere on the LCD screen to display the touch panel keys again.

Browsing for a video

Touching the item on list allows you to search for a video and play it in your iPod.

Narrowing down a video with the list

1 Touch [MENU] or [Top Menu].
The search screen is displayed.

2 Touch the category you want.

3 Touching ∧ or ∨ switches the selection to the next or previous page in the list.

4 Touch the item that you want to refine.
Refine the item until the track title is displayed on the list.

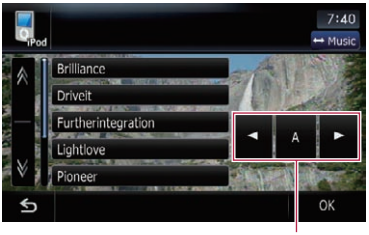
5 On the video list, touch the video you want to play.

❒ After you select the video using this function, touching [**MENU**] displays the list previously selected.

Searching for applicable items alphabetically

Using the search control displays the page which includes the first applicable option.

❒ This function is available for the alphabetical list only.



Search control

1 Touch the category you want.

2 Touch the item that you want to refine.

3 Touch [◀] or [▶] to select the character.

❒ An article listed below and space at the beginning of the artist name will be ignored and the next character will be taken into account for searching.
— "A" or "a"
— "AN", "An", or "an"
— "THE", "The", or "the"

4 Touch the character key to display the page which includes applicable options.

5 On the video list, touch the video you want to play.

Using the "Function" menu

❒ If [**Change Control Mode**] is set to [**iPod**], only the setting of [**Change Control Mode**] is available.

1 Touch [iPod] on the "AV Source" menu to display the control screen for "iPod".

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

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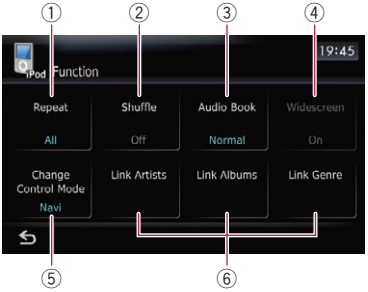
2 Touch .



① **Setting repeat play**
There are two repeat play types for playback.
Each touch of [**Repeat**] changes the setting as follows:
- **One** — Repeats just the current track
- **All** — Repeats all tracks in the selected list

② **Setting the shuffle play for music**
This function shuffles songs or albums and plays them in random order.
Each touch of [**Shuffle**] changes the setting as follows:
- **Off** — Does not shuffle.
- **Songs** — Plays back songs in random order within the selected list
- **Albums** — Selects an album randomly, and then plays back all songs in that album in order

③ **Setting the audiobook play speed**
While listening to an audiobook on iPod, playback speed can be changed.
Each touch of [**Audio Book**] changes the setting as follows:
- **Normal** — Playback in normal speed
- **Faster** — Playback faster than normal speed
- **Slower** — Playback slower than normal speed

④ **Playback video in wide screen mode**
If the video is compatible with wide screen format, set [**Widescreen**] to [**On**] in order to view the video image in the wide screen.
Each touch of [**Widescreen**] changes the setting as follows:
- **On** — Outputs the wide-screen video from iPod
- **Off** — Outputs the normal-sized video from iPod

❒ Display size is changed after you change "**Widescreen**" setting and select the video to play.
❒ This setting is available only during the video operation.

⑤ **Setting iPod control mode**
While the control mode is set to iPod, you can operate iPod function from the connected iPod.
Each touch of [**Change Control Mode**] changes the setting as follows:
- **Navi** — This navigation system's iPod function can be operated from this navigation system.
- **iPod** — This navigation system's iPod function can be operated from the connected iPod.

⑥ **Playing songs related to the currently playing song**
Songs related to the currently playing song are played. You can play songs of the following lists.
- Artist list of currently playing genre
- Album list of currently playing artist
- Song list of currently playing album

❒ This setting is available only during the music operation.
❒ Depending on the number of files in the iPod, there may be a delay when displaying a list.
- **Link Artists** — Songs related to the currently playing artist will be played.
- **Link Albums** — Songs related to the currently playing album will be played.
- **Link Genre** — Songs related to the currently playing genre will be played. ▣

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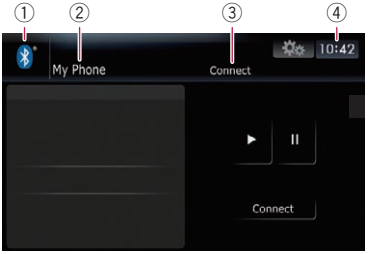
You can control the Bluetooth audio player featuring Bluetooth wireless technology.

- Before using the Bluetooth audio player, you need to register and connect the device to this navigation system.
  - ➲ For more details of the operation, refer to *Registering and connecting the Bluetooth device* on page 49.
- Depending on the Bluetooth audio player connected to this navigation system, the available operations with this navigation system are limited to the following two levels:
  - — A2DP profile (Advanced Audio Distribution Profile): Only playing back songs on your audio player is possible.
  - — AVRCP profile (Audio/Video Remote Control Profile): Playing back, pausing, selecting songs, etc., are possible.
- Since there are a number of Bluetooth audio players available on the market, operations with your Bluetooth audio player using this navigation system vary greatly in range. Please refer to the instruction manual that came with your Bluetooth audio player as well as this manual while operating your player on this navigation system.
- While you are listening to songs on your Bluetooth audio player, please refrain from operating your mobile phone as much as possible. If you try operating on your mobile phone, the signal from your mobile phone may cause a noise on the song playback.
- Even if you switch to another source while listening to a song on your Bluetooth audio player, the playback of song continues to elapse.
- Depending on the Bluetooth audio player you connected to this navigation system, operations on this navigation system to control the player may differ from those explained in this manual.
- When you are talking on a mobile phone connected to this unit via Bluetooth wireless technology, song playback from your Bluetooth audio player connected to this unit is paused.

- **Touch [Bluetooth Audio] on the "AV Source" menu to display the "Bluetooth Audio" screen.**
  - ➲ For details concerning operations, refer to *Screen switching overview* on page 18.

Reading the screen



① **Source icon**
Shows which source has been selected.
② **Device name**
③ **Bluetooth connection status indicator**
④ **TRFC indicator**
Shows the status of traffic announcements.
⑤ **NEWS indicator**
Shows the status of news programmes.
⑥ **Current time**

If the connected Bluetooth audio player features AVRCP 1.3, the following items will be displayed.

- **Track number indicator**
- **Play time indicator**
  Shows the elapsed playing time within the current track.
- **Track title indicator**
  Shows the title of the track currently playing (when available).
- **Artist name indicator**
  Shows the artist name currently playing (when available).
- **Album title indicator**
  Shows the title of the album for the current track (when available).

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- **Playback condition indicator**
  The marks shown below appears and indicates the current playback condition (when available).

  : Random play

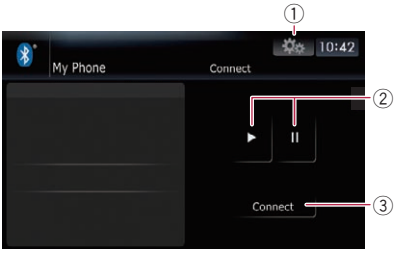
  : Repeat play

Indicator	Meaning
Media Repeat	All audio files in the current Bluetooth audio player are played repeatedly. This is the default condition.
All Repeat Random	
Track Repeat	The current file is played repeatedly.
Track Repeat Random	
Random	All audio files in the current Bluetooth audio player are played in random order.

➲ For more information, refer to *Using the "**Function**" menu* on this page.

❒ In the following cases, track information will only be displayed after a track starts or resumes playing:
— You connect the Bluetooth audio player compatible with AVRCP1.3, and operate the player to start playing.
— You select another track when playback is paused. ■

Using the touch panel keys



① **Display the "Function" menu**
➲ For details, refer to *Using the "**Function**" menu* on this page.

② **Playback and Pause**
Touching [▶] or [❚❚] switches between playback and pause.

③ **Connect the Bluetooth audio player**
Touching [**Connect**] connects the Bluetooth audio player manually. ■

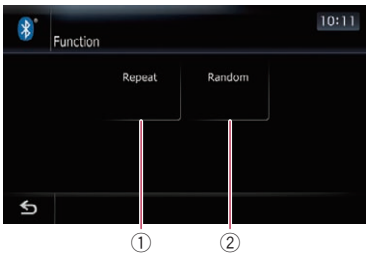
Using the "Function" menu

❒ This menu is available only when the connected Bluetooth audio player features AVRCP 1.3.

1 Touch [Bluetooth Audio] on the "AV Source" menu to display the "Bluetooth Audio" screen.

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

2 Touch .



① **Repeating play**
Each touch of [**Repeat**] changes the setting as follows:
- **All** — Repeats all compressed audio files in the Bluetooth audio player
- **Track** — Repeats just the current track
- **Off** — Does not repeat.

❒ If you skip the file forward or backward when the repeat play range in "**Track**", the repeat play range changes to "**All**".

② **Play tracks in a random order**
Random play lets you playback tracks in random order within the current repeat range.
Touching [**Random**] switches between "**On**" and "**Off**". ■

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You can display “video image” output by **AV1 Input** or **AV2 Input** to the screen of the navigation system. For details of the connection method, refer to “Installation Manual”.

CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, you must stop in a safe place and apply the handbrake.

Using AV1

You can display “video image” output by the equipment connected to “**AV1 Input**”.

1 Touch [AV1 Input] on the “AV System Settings” menu.

➲ For details, refer to *Setting video input 1* (**AV1**) on page 124.

2 Touch [AV1] on the “AV Source” menu.

The image is displayed on the screen.

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

Using AV2

You can display “video image” output by the equipment connected to “**AV2 Input**”.

1 Touch [AV2 Input] on the “AV System Settings” menu.

➲ For details, refer to *Setting video input 2* (**AV2**) on page 124.

2 Touch [AV2] on the “AV Source” menu.

The image is displayed on the screen.

➲ For details concerning operations, refer to *Screen switching overview* on page 18.

Using the touch panel keys

● **Touch the screen to display the touch panel keys.**

① **Hide the touch panel keys**

Touching [**Hide**] hides the touch panel keys. Touch anywhere on the LCD screen to display the touch panel keys again.

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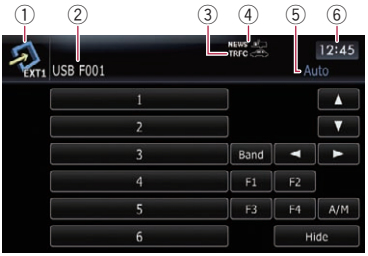
The term “external unit” refers to future Pioneer devices that are not currently planned for, or to devices that allow control of basic functions although they are not fully controlled by the navigation system. Two external units can be controlled by this navigation system. When two external units are connected, the navigation system allocates them as external unit 1 or external unit 2.
For details of the connection method, refer to “Installation Manual”.
For details concerning operation, refer to the external unit’s operation manual. This section provides information on external unit operations with the navigation system that differ from those described in the external unit’s operation manual.

❒ Operation varies depending on the external unit connected. (In some cases, the external unit may not respond.)

Reading the screen



① **Source icon**
Shows which source has been selected.

② **External unit indicator**
Displays the information that is sent by connected external units.

③ **TRFC indicator**
Shows the status of traffic announcements.

④ **NEWS indicator**
Shows the status of news programmes.

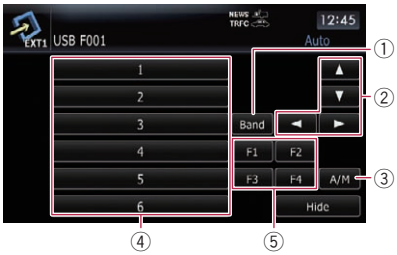
⑤ **Auto/Manual mode indicator**
Shows the current mode.

⑥ **Current time** ■

Using the touch panel keys

● **Touch [EXT1] or [EXT2] on the “AV Source” menu to select the external unit.**

➲ For details concerning operations, refer to *Screen switching overview* on page 18.



① **Send a band command**
Touch to send a band command to the external unit.

❒ Operation varies depending on the external unit connected. (In some cases, the external unit may not respond.)

② **Send an [▲], [▼], [◄], or [►] command**
Touch to operate the external unit.

❒ Operation varies depending on the external unit connected. (In some cases, some functions may not be used until you touch and hold the key.)

③ **Switching between automatic and manual function**
You can turn automatic and manual function on or off.
You can switch between **Auto** and **Manual** functions of the external unit connected. Initially, this function is set to **Auto**.

❒ Operating commands set for **Auto** and **Manual** operations vary depending on the external unit connected.

④ **Send a 1 key to 6 key command**
The external unit can be operated by transmitting the operating commands set to **1** key — **6** key.

❒ Operation varies depending on the external unit connected. (In some cases, some functions may not be used until you touch and hold the key.)

⑤ **Use F1 — F4 to operate the external unit**

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Using the external unit (EXT1, EXT2)

The external unit can be operated by transmitting the operating commands set to **F1** — **F4**.

- ❒ The operating commands set to **F1** — **F4** vary depending on the external unit.
- ❒ Some functions may not be used until you touch and hold the key. ■

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Selecting the video for "Rear display"

You can choose either to show the same image as the front screen or to show the selected source on the "Rear display".

● **Touch [Rear Screen] on the "AV Source" menu.**

Each touch of [**Rear Screen**] changes the settings as follows:

- **Mirror AV** — The video on the front screen of the navigation unit is output to the "Rear display"
- **Disc** — The video and sound of the DVDs are output to the "Rear display"
- **iPod** — The video and sound of the iPod are output to the "Rear display"
- **AV1** — The video and sound of **AV1** are output to the "Rear display"
- **AV2** — The video and sound of **AV2** are output to the "Rear display"

❒ When [**Mirror AV**] is selected, the following restrictions are applied to "Rear display".
— When selecting [**Rear View**] in the map display, nothing is displayed.
— All sounds cannot be output for "Rear display".
— When playing back video files on the external storage device (USB, SD), the "Video image" is not output.

❒ When **Disc** is selected, the following restrictions are applied to "Rear display".
— When a CD or MP3/WMA/AAC disc is set in the built-in DVD drive, only the sound is output.

❒ When **iPod** is selected, the following restrictions are applied to "Rear display".
— The "Video image" and sound are output only when the appropriate setting on [**AV1 Input**] is [**iPod**].

❒ When **AV** is selected, the following restrictions are applied to "Rear display".
— The "Video image" and sound are output only when **AV1**/**AV2** has both video and sound.
— The "Video image" and sound are output only when the appropriate setting on [**AV1 Input**] or [**AV2 Input**] are [**Video**]. ■

Operating the picture adjustment

⚠ CAUTION

For safety reasons, you cannot use some of these navigation functions while your vehicle is in motion. To enable these functions, you must stop in a safe place and apply the handbrake. Refer to "Important Information for the user" (a separate manual).

You can adjust the picture for each source and rear view camera.

1 Press and hold the MODE button.

Press and hold to display the "**Picture Adjustment**" screen.

- **Brightness** — Adjusts the black intensity
- **Contrast** — Adjusts the contrast
- **Colour** — Adjusts the colour saturation
- **Colour Temp.** — Adjusts the tone of colour (red is emphasised or green is emphasised)
- **Dimmer** — Adjusts the brightness of display
- [**Camera**] — Shows the picture adjustment display for the rear view camera

❒ Touching [**Source**] while adjusting the rear view camera image returns you to the previous screen.

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- The adjustments of **Brightness** and **Contrast** are stored separately when your vehicle's headlights are off (daytime) and when your vehicle's headlights are on (nighttime). These are switched automatically depending on the vehicle's headlights are on or off.
- The adjustments of **Dimmer** is stored separately when your vehicle's headlights are off (daytime) and when your vehicle's headlights are on (nighttime). **Dimmer** is switched automatically only when the value of nighttime is lower than the value of daytime.
- You cannot adjust **Colour** for the source without a video and navigation map display.
- The setting contents can be memorised separately for the following screen and the "Video image".
  - **AM**/**FM**/**CD**/**ROM**/**iPod**(Music)/**SD**(audio)/**USB**(audio)/**Bluetooth Audio** screen
  - **AV1** and **iPod**(Video)
  - **DVD-V**, **DVD-VR**, **DivX**
  - **SD**(Video) and **USB**(Video)
  - **AV2** and **EXT1**, **EXT2**
  - Rear view camera image
  - Map screen
- The picture adjustment may not be available with some rear view cameras.
- Because of the LCD screen characteristics, you may not be able to adjust the screen at low temperatures.

2 Touch [+] or [–] to adjust the desired item.

Each time you touch [**+**] or [**–**] increases or decreases the level of the desired item.

3 Touch to return to the previous screen.

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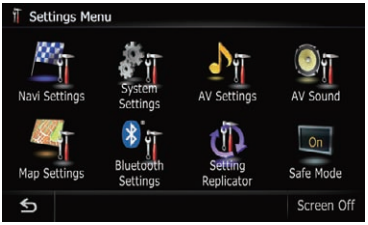
Options on the "AV System Settings" menu

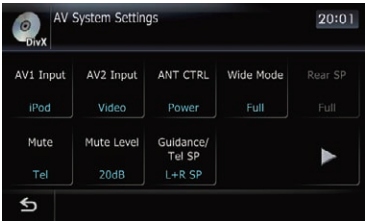
Displaying the "AV System Settings" menu

1 Press the HOME button to display the "Top Menu".

2 Touch [Settings].
The "**Settings Menu**" screen appears.



3 Touch [AV Settings].
The "**AV System Settings**" menu appears.



❒ You can only adjust [**Wide Mode**] when selecting an AV source with video.
❒ You can only adjust [**Rear SP**] when the AV source is "**Off**".

Setting video input 1 (AV1)

You can switch this setting according to the connected component.
❒ This setting applies to mini-jack input.

● **Touch [AV1 Input] on the "AV System Settings" menu.**
➲ For details, refer to *Displaying the "***AV System Settings***" menu* on this page.

Each touch of [**AV1 Input**] changes the setting as follows:
- **iPod** — iPod connected with the USB Interface cable for iPod (CD-IU50V)
- **Video** — External video component
- **Off** — No video component is connected

❒ Use **AV1 Input** when connecting CD-RM10 (sold separately) through the external video component.

Setting video input 2 (AV2)

You can switch this setting according to the connected component.
❒ This setting applies to RCA inputs (AUDIO INPUT and VIDEO INPUT) on the back of the system.

● **Touch [AV2 Input] on the "AV System Settings" menu.**
➲ For details, refer to *Displaying the "***AV System Settings***" menu* on this page.

Each touch of [**AV2 Input**] changes the setting as follows:
- **Off** — No video component is connected
- **EXT** — Pioneer external unit connected with the RCA video cable
- **Video** — External video component

Switching the auto aerial setting

If the blue lead of the navigation system is connected to the aerial control terminal of the vehicle, select either of the following settings.
- **Power** — The aerial extends or turns on when the ignition switch is turned on. The aerial is stored or turned off when the ignition switch is turned off.
- **Radio** — The aerial extends or turns on only when the audio source is **FM** or **AM**. The aerial is stored or turned off when the AV source is switched to another source.

● **Touch [ANT CTRL] on the "AV System Settings" menu.**
➲ For details, refer to *Displaying the "***AV System Settings***" menu* on this page.

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Touching [**ANT CTRL**] switches between [**Radio**] and [**Power**].

❒ Regardless of whether [**Radio**] or [**Power**] is selected, turning off the ignition switch will cause the aerial to automatically retract or turn off.

Changing the wide screen mode

● **Touch [Wide Mode] on the "AV System Settings" menu.**

➲ For details, refer to *Displaying the "***AV System Settings***" menu* on the previous page.

Each touch of [**Wide Mode**] changes the setting as follows:

- **Full (full)**
  A 4:3 picture is enlarged in the horizontal direction only, enabling you to enjoy a 4:3 TV picture (normal picture) without any omissions.
- **Cinema (cinema)**
  A picture is enlarged by the same proportion as **Full** or **Zoom** in the horizontal direction and by an intermediate proportion between **Full** and **Zoom** in the vertical direction; ideal for a cinema-sized picture (wide screen picture) where captions lie outside the frame.
- **Zoom (zoom)**
  A 4:3 picture is enlarged in the same proportion both vertically and horizontally; ideal for a cinema-sized picture (wide screen picture).
- **Normal (normal)**
  A 4:3 picture is displayed normally, giving you no sense of disparity since its proportions are the same as that of the normal picture.

❒ Different settings can be stored for each video source.

❒ The same setting is automatically applied for the following grouping.

- **DVD-V**, **DVD-VR**, **DivX**
- **EXT1** and **EXT2**
- **AV1** and **AV2**
- **iPod**

❒ When video is viewed in a wide screen mode that does not match its original aspect ratio, it may look strange.

❒ Remember that use of this system for commercial or public viewing purposes may constitute an infringement on the author's rights protected by the Copyright Law.

❒ The navigation map and the rear view camera picture is always viewed at **Full**.

Setting the rear output

The navigation system's rear output can be used for a full-range speaker or subwoofer connection. If you switch **Rear SP** to **Sub. W**, you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp. Initially, the navigation system is set for a rear full-range speaker connection (**Full**).

❒ Both rear speaker leads output and RCA rear output are switched simultaneously in this setting. (When you use the product without RCA rear output, this setting only applies to the rear speaker leads.)

❒ **Rear SP** can be set only when the source is [**Off**].

1 Touch [Rear SP] on the "AV System Settings" menu.

➲ For details, refer to *Displaying the "***AV System Settings***" menu* on the previous page.

2 Touch [Rear SP] to switch the rear output setting.

When no subwoofer is connected to the rear output, select **Full**.

When a subwoofer is connected to the rear output, select **Sub. W**.

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Switching the muting/attenuation timing

You can mute the AV source volume or attenuate the output signal. This setting is invalid for the mute signal has been received from the MUTE lead connected to the navigation unit. (Even if this setting is [**Off**], the navigation system will mute or attenuate the audio source volume when the signal is output via MUTE lead.)

● **Touch [Mute] on the "AV System Settings" menu.**

Each touch of [**Mute**] changes the settings as follows:

- **Guide/Tel** — The volume is muted or attenuated according to the following conditions
  - — When the navigation outputs the guidance voice.
  - — When you use a mobile phone via Bluetooth technology (dialling, talking, incoming call).
- **Tel** — The volume is muted or attenuated according to the following conditions
  - — When you use a mobile phone via Bluetooth technology (dialling, talking, incoming call).
- **Off** — The volume does not change

❒ Operation returns to normal when the correspond action is ended.

Switching the muting/attenuation level

You can select the muting/attenuation level of [**Mute**]. This setting is also effective for a mute signal that has been received from the MUTE lead connected to the navigation unit.

❒ This menu is not available when AV source is [**Off**].

● **Touch [Mute Level] on the "AV System Settings" menu.**

Each touch of [**Mute Level**] changes the settings as follows:

- **20dB** — The volume becomes 1/10
- **10dB** — The volume becomes 1/3
- **All** — The volume becomes 0

❒ When you select [**All**], no audio adjustments are possible during the sound is turned off.

❒ When you select [**20dB**] or [**10dB**], no audio adjustments are possible during the sound is attenuated.

❒ Operation returns to normal when the correspond action is ended.

❒ Even when a mute signal has been received from MUTE lead connected to the navigation unit, navigation voice guidance cannot be attenuated or muted.

Changing the voice output of the navigation guidance

You can set the speaker to output the navigation guidance and phone voice, etc.

● **Touch [Guidance/Tel SP] on the "AV System Settings" menu.**

Each touch of [**Guidance/Tel SP**] changes the settings as follows:

- **L+R SP** — Uses both the front right and left speakers
- **Left SP** — Uses only the front left speaker
- **Right SP** — Uses only the front right speaker

Switching Auto PI seek

The navigation system can automatically search for a different station with the same programming, even during preset recall.

● **Touch [Auto PI] on the "AV System Settings" menu.**

➲ For details, refer to *Displaying the "***AV System Settings***" menu* on page 124.

Touching [**Auto PI**] switches between [**On**] and [**Off**].

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Setting the FM tuning step

Normally the FM tuning step employed by seek tuning is 50 kHz. When **AF** or **TA** is on, the tuning step automatically changes to 100 kHz. It may be preferable to set the tuning step to 50 kHz when **AF** is on.

● **Touch [FM Step] on the "AV System Settings" menu.**

➲ For details, refer to *Displaying the "***AV System Settings***" menu* on page 124.

Each time you touch [**FM Step**] will switch the FM tuning step between 50 kHz and 100 kHz while **AF** or **TA** is on.

❒ The tuning step remains at 50 kHz during manual tuning.

Displaying your DivX VOD registration code

In order to play DivX VOD (video on demand) content on this navigation system, you first need to register the unit with your DivX VOD content provider. You do this by generating a DivX VOD registration code, which you submit to your provider.

❒ This feature is available when the selected source is **CD**, **ROM**, **DivX**, **DVD-V** or **DVD-VR**.

● **Touch [DivX VOD] on the "AV System Settings" menu.**

Your 8-digit registration code is displayed.

❒ Make a note of the code as you will need it when you register with a DivX VOD provider.

The "AV Sound Settings" menu options

Displaying the "AV Sound Settings" menu

1 Press the HOME button to display the "Top Menu".

2 Touch [Settings].

The "**Settings Menu**" screen appears.

3 Touch [AV Sound].

The "**AV Sound Settings**" screen appears.

❒ You cannot make adjustments in the following situations:
— AV source is [**Off**]
— During muting/attenuation

❒ You cannot select [**SLA**] when the FM tuner is selected as the AV source.

Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

1 Touch [FAD/BAL] on the "AV Sound Settings" menu.

➲ For details, refer to *Displaying the "***AV Sound Settings***" menu* on this page.

When [**Sub. W**] is selected in [**Rear SP**], [**Balance**] will be displayed instead of [**FAD/BAL**] and front/rear speaker balance cannot be adjusted.

➲ Refer to *Setting the rear output* on page 125.

2 Touch [▲] or [▼] to adjust front/rear speaker balance.

Each time you touch [▲] or [▼], the front/rear speaker balance moves towards the front or the rear.

"**Front:15**" to "**Rear:15**" is displayed as the front/rear speaker balance moves from front to rear.

Setting "**Front:**" and "**Rear:**" to "**0**" is correct when using a two speaker system.

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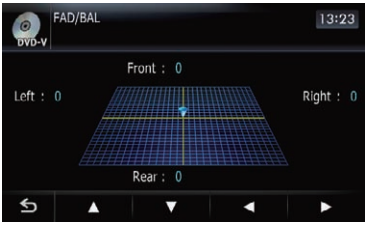
3 Touch [◄] or [►] to adjust left/right speaker balance.

Each time you touch [◄] or [►], the left/right speaker balance moves towards the left or the right.



Left:15 to **Right:15** is displayed as the left/right speaker balance moves from left to right.

Using the equaliser

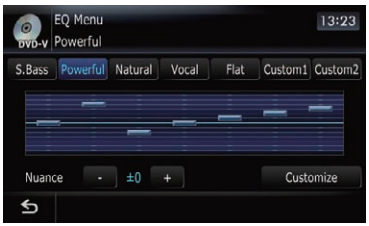
The equaliser lets you adjust equalisation to match vehicle interior acoustic characteristics as desired.

Recalling equaliser curves

There are seven stored equaliser curves that you can easily recall at any time. Here is a list of the equaliser curves:

Equaliser curve
Super Bass **Super Bass** is a curve in which only low-pitched sound is boosted.
Powerful **Powerful** is a curve in which low-pitched and high-pitched sounds are boosted.
Natural **Natural** is a curve in which low-pitched and high-pitched sounds are slightly boosted.
Vocal **Vocal** is a curve in which the midrange, which is the human vocal range, is boosted.
Flat **Flat** is a flat curve in which nothing is boosted.
Custom1 **Custom1** is an adjusted equaliser curve that you create. A separate custom curve can be created for each source.
Custom2 **Custom2** is an adjusted equaliser curve that you create. If you select this curve, the effect is applied to all AV sources.

1 Touch [EQ] on the "AV Sound Settings" menu.



➲ For details, refer to *Displaying the "***AV Sound Settings***" menu* on the previous page.

2 Touch the equaliser you want.

Adjusting the preset equaliser curve effect

You can adjust the effect of the preset equaliser curves.

The following equaliser curves can be adjusted:

- **Super Bass**
- **Powerful**
- **Natural**
- **Vocal**

1 Touch [EQ] on the "AV Sound Settings" menu.

➲ For details, refer to *Displaying the "***AV Sound Settings***" menu* on the previous page.

2 Touch the equaliser you want.

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3 Touch [+] or [–] next to "Nuance".

- ❒ The level can be adjusted in the range of –6 to +6.
- ❒ If [**Natural**] is selected, the level can be adjusted in the range of –4 to +6.

Adjusting the equaliser curves

You can adjust the currently selected equaliser curve setting as desired. Adjustments can be made with a 7-band graphic equaliser.

The difference between "Custom1" and "Custom2"

- A separate **Custom1** curve can be created for each source. If you make adjustments when a curve **Super Bass**, **Powerful**, **Natural**, **Vocal**, **Flat**, or **Custom1** is selected, the equaliser curve settings will be memorised in **Custom1**.
- A **Custom2** curve can be created common to all sources. If you make adjustments when **Custom2** curve is selected, the **Custom2** curve will be updated.
- The adjusted **Custom1** curve is memorised for each of the source selected, but one curve is shared for the following sources.
  — **CD**, **ROM**, **DVD-V**, **DVD-VR**, **DivX**
  — **AM** and **FM**
  — **EXT1** and **EXT2**
  — **AV1** and **AV2**
  — **SD** and **USB**
- The different source volume level can be set between **iPod** and **USB**.
- When [**Flat**] is selected, no supplement or correction is made to the sound. This is useful to check the effect of the equaliser curves by switching alternatively between [**Flat**] and a set equaliser curve.

1 Touch [EQ] on the "AV Sound Settings" menu.

➲ For details, refer to *Displaying the "***AV Sound Settings***" menu* on page 127.

2 Touch the one of keys to select a curve that you want to use as the basis of customising.

3 Touch [Customize].

4 Touch the frequency that you want to adjust the level.

5 Touch [▲] or [▼] to adjust the level of the equaliser band.

Each time you touch [▲] or [▼], the level of the equalisation band increases or decreases.

Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1 Touch [Loudness] on the "AV Sound Settings" menu.

➲ For details, refer to *Displaying the "***AV Sound Settings***" menu* on page 127.

2 Touch [Loudness] to select the level you want.

Each time you touch [**Loudness**], the level is selected in the following order:
Off — **Low** — **Mid** — **High**

Using subwoofer output

The navigation system is equipped with a subwoofer output mechanism, which can be turned on or off.

- ❒ Only when "**Sub Woofer**" is [**On**], you can adjust "**Phase**", "**Level**" and "**Frequency(Hz)**".

1 Touch [Sub Woofer] on the "AV Sound Settings" menu.

➲ For details, refer to *Displaying the "***AV Sound Settings***" menu* on page 127.

2 Touch [On] to turn subwoofer output on.

To turn subwoofer output off, touch [**Off**].

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3 Touch [Reverse] or [Normal] to select the phase of subwoofer output.

4 Touch [+] or [–] next to "Level" to adjust the output level.
+6 to **–24** is displayed as the level is increased or decreased.

5 Touch [◄] or [►] next to "Frequency(Hz)" to select cut-off frequency.
Each time you touch [◄] or [►], cut-off frequencies are selected in the following order:
50 Hz — 63 Hz — 80 Hz — 100 Hz — 125 Hz
Only frequencies lower than those in the selected range are output from the subwoofer.

Using the high pass filter

When you do not want low sounds from the subwoofer output frequency range to play from the front or rear speakers, activate **HPF** (high pass filter). Only frequencies higher than those in the selected range are output from the front or rear speakers.

1 Touch [HPF] on the "AV Sound Settings" menu.
➲ For details, refer to *Displaying the "***AV Sound Settings***" menu* on page 127.

2 Touch [HPF] to select cut-off frequency.
Each time you touch [**HPF**] selects cut-off frequencies in the following order:
Off — 50 Hz — 63 Hz — 80 Hz — 100 Hz — 125 Hz

Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.
❒ Settings are based on the FM tuner volume level, which remains unchanged.

1 Compare the FM tuner volume level with the level of the source you wish to adjust.

2 Touch [SLA] on the "AV Sound Settings" menu.
➲ For details, refer to *Displaying the "***AV Sound Settings***" menu* on page 127.

3 Touch [+] or [–] to adjust the source volume.
+8dB to **–8dB** is displayed as the source volume is increased or decreased.
The following AV sources are set to the same source level adjustment volume automatically.
- **DVD-V** and **DVD-VR**
- **CD**, **ROM**, **DivX**
- **EXT1** and **EXT2**
- **AV1** and **AV2**
- **SD** and **USB**

❒ The different source volume level can be set between **iPod** and **USB**.

Enhancing bass (Bass Booster)

The "**Bass Booster**" enhances bass sounds, which can be muted by driving noise.

1 Touch [Bass Booster] on the "AV Sound Settings" menu.
➲ For details, refer to *Displaying the "***AV Sound Settings***" menu* on page 127.

2 Touch [+] or [–] to adjust the range from 0 to 6.

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Setting the simulated sound stage

You can select the desired effect from various simulated sound stages, such as Music Studio or Dynamic Theatre. You can also adjust a listener positioning effect.

Setting a stage that fits your image

1 Touch [Staging] on the "AV Sound Settings" menu.

2 Touch desired stage setting.

- ❒ [**Living Room**] setting that emphasises mid-range sound hardly has any effect near the maximum volume level.
- ❒ When you set staging to an option other than [**Off**], the high pass filter (**HPF**) setting turns [**Off**].
- ➲ For details, refer to *Using the high pass filter* on the previous page.

Adjusting a position effect

You can select a listener position that you want to make as the centre of sound effects.

1 Touch [Staging] on the "AV Sound Settings" menu.

2 Touch [Position].

3 Touch desired position.

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Setting the anti-theft function

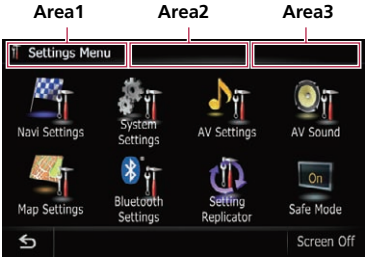
You can set a password for the navigation system. If the back-up lead is cut after the password is set, the navigation system prompts for the password at the time of next boot up.

Setting the password

1 Press the HOME button to display the "Top Menu".

2 Touch [Settings].
The "**Settings Menu**" screen appears.

3 Touch Area1, followed by Area2, and then touch and hold Area3.



4 Touch [Set Password].
The password setting screen appears.

5 Enter the password you want to set.
- 5 to 16 characters can be entered for a password.

6 Touch [OK].

7 Reenter the password to confirm the setting.

8 Touch [OK].
Password protection is applied.
- If you want to change the password currently set, enter the current password and then enter the new one.

Entering the password

On the password input screen, you must enter the current password. If you enter an incorrect password three times, the screen is locked and operations using touch panel keys are disabled.

1 Enter the password.

2 Touch [OK].
The message "**The unit has been locked because an invalid password was entered three times. Turn ACC off and on, and enter your password.**" appears if you entered the correct password and the navigation system is unlocking.

Deleting the password

The current password can be deleted.

1 Press the HOME button to display the "Top Menu".

2 Touch [Settings] on the "Top Menu".

3 Touch Area1, followed by Area2, and then touch and hold Area3.

4 Touch [Clear password].
The password setting screen appears.

5 Enter the current password.

6 Touch [OK].

7 Touch [Yes].
The message for deletion appears and then the current password is deleted.

Forgotten passwords

Contact the nearest authorised Pioneer Service Station.

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Restoring the default setting

Resets various settings registered to the navigation system and restores them to the default or factory settings.

❒ Some data remains. Read *Returning the navigation system to the default or factory settings* before you operate this function.

1 Display the "System Settings" screen.

➲ For details, refer to *Displaying the "***System Settings***" screen* on page 68.

2 Touch [Restore Factory Settings].

The message confirming whether to restore the settings appears.

3 Touch [Yes].

Returning the navigation system to the initial state

You can return settings or recorded content to the default or factory settings.

❒ Some data remains. Read *Returning the navigation system to the default or factory settings* before you operate this function.

1 Park your vehicle in a safe place, and turn off the engine. Turn the ignition key back to "Acc off". Then start the engine again, and turn the power to the navigation system back on.

The splash screen appears.

2 Press and hold the MODE button and the TRK (◄) button while splash screen appears.

The "**Select Items to Reset**" screen appears.

3 Touch [Clear user information].

The message confirming whether to erase all user data appears.

And then touch [**Yes**] to erase all user data.

▪ Touch [**Reset**].

Various settings registered to the navigation system is reset to the default or factory settings.

4 Touch [Yes].

The recorded contents are cleared.

Returning the navigation system to the default or factory settings

You can return settings or recorded content to the default or factory settings. There are four methods to clear user data, and the situations and the cleared content are different for each method. For information regarding the content that is cleared by each method, see the list presented later.

Method 1: The battery of the vehicle is removed or the yellow lead of the navigation system is disconnected.

Clears almost all settings of the AV function.

Method 2: Touch [Restore Factory Settings].

This clears some items in the "**Navi Settings**" menu, the "**System Settings**" menu and the "**Bluetooth Settings**" menu.

➲ For details, refer to *Setting items to be deleted* on the next page.

Method 3: Touch [Clear user information] on the "Select Items to Reset" screen.

Clears almost all settings and user data of the navigation function and the phone function.

➲ For details, refer to *Setting items to be deleted* on the next page.

Method 4: Touch [Reset] on the "Select Items to Reset" screen.

Clears almost all settings and user data of the navigation function and the phone function.

➲ For details, refer to *Setting items to be deleted* on the next page.

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Setting items to be deleted

The items to be deleted vary depending on the reset method. The items listed in the following table return to the default or factory settings.

❒ Almost all items not listed below will be retained. However, some of the items to be returned to their default values are not listed if the setting value can be easily recovered by user, such as the last map scale, the last status of AV operation screen, etc.

—: The setting will be retained.

✓: The setting will be cleared and returned to the default or factory settings.

Navigation functions		Method 1	Method 2	Method 3	Method 4
Map function	View mode and scale setting on the map	—	—	✓	✓
	Direction of the map	—	✓	✓	✓
	Last cursor position on the map screen	—	✓	✓	✓
Route Setting	Current route	✓	—	✓	✓
	Guidance state of the current route	—	—	✓	✓
	Vehicle position information	—	—	✓	✓
	Route conditions	—	✓	✓	✓
[**Destination**]	Point registered in [**Favourites**]	—	—	✓	—
	[**History**]	—	—	✓	—
Map Settings menu	[**View Mode**]	—	—	✓	✓
	Other settings	—	✓	✓	✓
[**Navi Settings**]	[**3D Calibration Status**]	—	—	—	—
	[**Set Home**]	—	—	✓	✓
	[**Modify Current Location**]	—	—	✓	✓
	Other settings	—	✓	✓	✓
[**System Settings**]	[**Program Language**], [**Voice Language**]	—	—	✓	✓
	[**Time**]	—	—	✓	✓
	[**Back Camera**]	✓	—	—	—
	Other settings	—	✓	✓	✓

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[**Phone Menu**] menu	All settings	—	✓	✓	✓
Other functions	Anti-theft password	—	—	—	—

AV functions		**Method 1**	**Method 2**	**Method 3**	**Method 4**
Volume		✓	—	—	—
[**AV Settings**]	All settings	✓	—	—	—
[**AV Sound**]	All settings	✓	—	—	—
Function of each source	All settings	✓	—	—	—
Other Functions	[**Picture Adjustment**]	✓	—	—	—
	Tilt	✓	—	—	—

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Appendix

Troubleshooting

If you have problems operating your navigation system, refer to this section. The most common problems are listed below, along with likely causes and solutions. If a solution to your problem cannot be found here, contact your dealer or the nearest authorised Pioneer service facility.

Problems with the navigation screen

Symptom	Cause	Action (Reference)
The power doesn't turn on. The navigation system doesn't operate.	Leads and connectors are incorrectly connected.	Confirm once more that all connections are correct.
	The fuse is blown.	Rectify the reason for the fuse blowing, then replace the fuse. Be very sure to install a correct fuse with the same rating.
	Noise and other factors are causing the built-in microprocessor to operate incorrectly.	Park your vehicle in a safe place, and turn off the engine. Turn the ignition key back to "Acc off". Then start the engine again, and turn the power to the navigation system back on. (Page 48)
You cannot position your vehicle on the map without a significant positioning error.	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. Such a loss of signal quality may occur for the following reasons: —The GPS aerial is in an unsuitable location. —Obstacles are blocking signals from the satellites. —The position of satellites relative to your vehicle is inadequate. —Signals from the GPS satellites have been modified to reduce accuracy. (GPS satellites are operated by the US Department of Defense, and the US government reserves the right to distort positioning data for military reasons. This may lead to greater positioning errors.) —If a vehicle phone or mobile phone is used near the GPS aerial, GPS reception may be lost temporarily.	Check the GPS signal reception and the position of the GPS aerial if necessary, or continue driving until reception improves. Keep the aerial clear.
	Something covers the GPS aerial.	Do not cover the GPS aerial with spray paint or vehicle wax, because this may block the reception of GPS signals. Snow buildup can also degrade the signals.
	Signals from the vehicle's speed pulse are not being picked up properly.	Check that the cables are properly connected. If necessary, consult the dealer that installed the system.

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You cannot position your vehicle on the map without a significant positioning error.	The navigation system may not be mounted securely in your vehicle.	Check that the navigation system is securely mounted and, if necessary, consult the dealer that installed the system.
	The navigation system is installed with an extreme angle exceeding the installation angle limitations.	Confirm the installation angle. (The navigation system must be installed within the allowed installation angle. For details, refer to “Installation Manual”.)
	Indication of the position of your vehicle is misaligned after a U-turn or reversing.	Check whether or not the reverse gear signal input lead (violet) is connected properly. (The navigation system works properly without the lead connected, but positioning accuracy will be adversely affected.)
The map colour does not switch automatically between daytime and nighttime.	[**Day/Night Display**] is set to [**Day**].	Check [**Day/Night Display**] setting and make sure [**Automatic**] is selected. (Page 29)
	The orange/white lead is not connected.	Check the connection.
The screen is too bright.	An improper value has been set on “**Brightness**”.	Check the settings. (Page 122)
The display is very dim.	The vehicle’s light is turned ON, and [**Automatic**] is selected on [**Day/Night Display**].	Read about [**Day/Night Display**] setting and, if desired, select [**Day**]. (Page 29)
	An improper value has been set on “**Brightness**”.	Check the settings. (Page 122)
No sounds of AV source are produced. The volume level will not rise.	The volume level is low.	Adjust the volume level.
	The attenuator or mute is on.	Turn the attenuator or mute off.
	A speaker lead is disconnected.	Check the connection.
The volume of navigation guidance and beeps cannot be adjusted.	Try to adjust them with **VOL** (**+**/**–**) button.	Turn the volume up or down using [**Volume**] on the “**System Settings**” menu. (Page 70)
The person on the other end of the phone call cannot hear the conversation due to an echo.	The voice from the person on the other end of the phone call is output from the speakers and then picked up by the microphone again, creating an echo.	Use the following methods to reduce the echo: —Lower the volume on the receiver —Have both parties pause slightly before speaking
There’s no picture.	The handbrake cord is not connected.	Connect the handbrake cord, and apply the handbrake.
	The handbrake is not applied.	Connect the handbrake cord, and apply the handbrake.
	The backlight of the LCD panel is turned off.	Turn on the backlight. (Page 74)
“Rear display” picture disappears.	The source disc being listened to in the navigation system has been ejected.	Before ejecting the disc, switch the source. This problem may occur when certain connection methods are used.
	There is a problem with the “Rear display”, for example a faulty wiring connection.	Check the “Rear display” and its connection.
	An AV source that cannot output to the rear display is selected.	Select an appropriate AV source.

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Nothing is displayed and the touch panel keys cannot be used.	The setting for the rear view camera is incorrect.	Select the appropriate setting for the rear view camera.
	The gearstick was placed in [R] when the rear view camera was not connected.	Select the correct polarity setting for [**Back Camera**]. (Page 71)
There is no response when the touch panel key are touched, or a different key responds.	The touch panel keys deviate from the actual positions that respond to your touch for some reason.	Perform touch panel calibration. (Page 72)
The external storage device (USB, SD) cannot be used.	The USB storage device has been removed immediately after plugging it.	Park your vehicle in a safe place, and turn off the engine. Turn the ignition key back to "Acc off". Then start the engine again, and turn the power to the navigation system back on.

Problems in the AV screen

Symptom	Cause	Action (Reference)
CD or DVD playback is not possible.	The disc is inserted upside down.	Insert the disc with the label upward.
	The disc is dirty.	Clean the disc.
	The disc is cracked or otherwise damaged.	Insert a normal, round disc.
	The files on the disc are an irregular file format.	Check the file format.
	The disc format cannot be played back.	Replace the disc.
	The loaded disc is a type this system cannot play.	Check what type of disc it is. (For more cautions about handling each type of media, refer to Page 150.)
The screen is covered by a caution message and the video cannot be shown.	The handbrake lead is not connected or applied.	Connect the handbrake lead correctly, and apply the handbrake.
	The handbrake interlock is activated.	Park your vehicle in a safe place and apply the handbrake.
No video output from connected equipments. No video output from connected iPod.	[**AV1 Input**] or [**AV2 Input**] setting is incorrect.	Correct the settings. (Page 119)
	The connection of the USB interface cable for iPod is incorrect.	Connect both the USB plug and the RCA cable side. (If only one of these connection has been made, the iPod will not work properly.) (Page 15)
The audio or video skips.	The navigation system is not firmly secured.	Secure the navigation system firmly.
No sounds are produced. The volume level will not rise.	Cables are not connected correctly.	Connect the cables correctly.
	The system is performing still, slow motion, or frame-by-frame playback with DVD-Video.	There is no sound during still, slow motion, or frame-by-frame playback with DVD-Video.
	The system is paused or performing, fast reverse or forward during the disc playback.	For the media other than music CD (CD-DA), there is no sound on fast reverse or forward.
The icon ⊘ is displayed, and operation is not possible.	The operation is not compatible with the video configuration.	This operation is not possible. (For example, the DVD playing does not feature that angle, audio system, subtitle language, etc.)

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The picture stops (pauses) and the navigation system cannot be operated.	The reading of data is impossible during disc playback.	After touching ■ once, start playback once more.
The picture is stretched, with incorrect aspect ratio.	The aspect setting is incorrect for the display.	Select the appropriate setting for that image. (Page 125, Page 101)
A parental lock message is displayed and DVD playback is not possible.	Parental lock is on.	Turn parental lock off or change the level. (Page 102)
Parental lock for DVD playback cannot be cancelled.	The code number is incorrect.	Input the correct code number. (Page 102)
Playback is not with the audio language and subtitle language settings selected in [**DVD/DivX® Setup**].	The DVD playing does not feature dialogue or subtitles in the language selected in [**DVD/DivX® Setup**].	Switching to a selected language is not possible if the language selected in [**DVD/DivX® Setup**] is not recorded on the disc. (Page 101)
The picture is extremely unclear/distorted and dark during playback.	The disc features a signal to prohibit copying. (Some discs may have this.)	Since the navigation system is compatible with the copy guard analogue copy protect system, the picture may suffer from horizontal stripes or other imperfections when a disc with that kind of protection signal is viewed on some displays. This does not mean the navigation system is malfunctioning.
iPod cannot be operated.	The iPod is frozen.	• Reconnect the iPod with the USB interface cable for iPod. • Update the iPod software version.
	An error has occurred.	• Reconnect the iPod with the USB interface cable for iPod. • Park your vehicle in a safe place, and turn off the engine. Turn the ignition key back to "Acc off". Then start the engine again, and turn the power to the navigation system back on. • Update the iPod software version.

Problems with the phone screen

Symptom	Cause	Action (Reference)
Dialling is not possible because the touch panel keys for dialling are inactive.	Your phone is out of range for service.	Retry after re-entering the range for service.
	The connection between the mobile phone and the navigation system cannot be established now.	Perform the connection process.

If the screen becomes frozen...

Park your vehicle in a safe place, and turn off the engine. Turn the ignition key back to "Acc off". Then start the engine again, and turn the power to the navigation system back on.

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Appendix

Messages and how to react to them

The following messages may be displayed by your navigation system. Refer to the table below to identify the problem, then take the suggested corrective action.
There are occasions when you may see error messages other than those shown here. In such a case, follow the instructions given on the display.

Messages and how to react to them

Message	Cause	Action (Reference)
Route calculation was not possible.	Route calculation has failed because of a malfunction in map data, software, or hardware.	• Change the destination. • Consult the Pioneer Local dealer if this message persists.
Route calculation not possible. Destination too far.	The destination is too far.	Set a destination closer to the starting point.
Route calculation not possible. Destination too close.	The destination is too close.	Set a destination farther from the starting point.
Route calculation not possible. Navigation cannot be provided around destination or starting point.	The destination, waypoint(s), or starting point are in an area where no road exists (e.g. a mountain) and the route calculation is impossible.	• Set a destination and waypoint(s) on roads. • Reset the destination after you drive the vehicle to any road.
Route to destination cannot be calculated.	The destination or waypoint(s) are in an isolated island, etc. without a ferry and the route calculation is impossible. If there is no road connected to your starting point or destination, this message will appear.	Change the destination.
Failed to create route profile	In rare cases, a route calculation error may occur.	• Retry. • Consult the Pioneer Local dealer if this message persists.
No picture folder. Save jpeg file to /Pictures/ folder	Cannot load the image because "**Pictures**" folder is not found in the inserted external storage device.	Use appropriate data and store it correctly. (Page 71)
	"**Pictures**" folder exists on the SD memory card but there is no loadable data in the folder.	Use appropriate data and store it correctly. (Page 71)
Data Read error.	Failed to read the data for some reason.	Use appropriate data and store it correctly. (Page 70)
The file is corrupt	The data is damaged or an attempt was made to set an image file that was not made to specifications as the splash screen.	Use appropriate data and store it correctly. (Page 70)

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Connection failed.	The mobile phone's Bluetooth wireless technology is turned off.	Activate the target phone's Bluetooth wireless technology.
	The mobile phone is paired (connected) with another device.	Cancel the pairing (connection) and retry.
	Rejection has been received from the mobile phone.	Operate the target phone and accept the connection request from the navigation system. (Furthermore, check the connection settings on your mobile phone.)
	The target mobile phone cannot be found.	Check whether your mobile phone is activated and, whether the distance to your mobile phone is not too far.
Could not find any available phone.	No available phone exists in the surroundings when the system searches for connectable mobile phones featuring Bluetooth wireless technology.	• Activate the target phone's Bluetooth wireless technology. • Check whether your mobile phone is activated and, whether the distance to your mobile phone is not too far.
Registration failed.	The mobile phone's Bluetooth wireless technology is turned off during the registration step.	Keep turning the target phone's Bluetooth wireless technology on during the registration.
	Rejection by the mobile phone has received.	Operate the target phone and accept the registration request from the navigation system. (Furthermore, check the connection settings on your mobile phone.)
	Registration step has failed for some reason.	Retry the registration and if the registration still fails, try registering using your mobile phone.

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Appendix

Messages for audio functions

When problems occur with AV source playback, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, record the error message and contact your dealer or your nearest Pioneer service centre. The messages in "( )" will appear on the "Rear display".

Built-in DVD drive

Message	Cause	Action (Reference)
Reading error (ERROR-02-XX)	Dirty	Clean the disc.
	Scratched disc	Replace the disc.
	The disc is loaded upside down	Check that the disc is loaded correctly.
Playback error. Please remove the disc.	Electrical or mechanical	• Replace the disc. • Set the ACC to Off and then set it to On again.
Region code cannot be matched (DIFFERENT REGION DISC)	The disc does not have the same region number as the navigation system.	Replace the DVD-Video with one bearing the correct region number.
Unreadable disc	This type of disc cannot be played by the navigation system	Replace the disc with one the navigation system can play. (Page 168)
Playback error due to irregular temperature. Please remove the disc. (THERMAL PROTECTION IN MOTION)	The temperature of the navigation system is outside of the normal operating range.	Wait until the unit's temperature returns to within normal operating limits.
ERROR-FF-FF	Undefined error	Set the ACC to Off and then set it to On again.
Tracks that cannot be played back will be skipped (FILE SKIPPED)	Files that are protected by digital rights management.	The protected files are skipped.
Cannot play back all tracks (PROCETED DISC)	All the files on the inserted disc are secured by DRM.	Replace the disc.
Flash writing error. Impossible to write on the flash. (CAN NOT SAVE DATA)	The playback history for VOD contents cannot be saved for some reason.	• Retry. • If the message appears frequently, consult your dealer.
Authorization Error (AUTHORIZATION ERROR)	The device does not match the device registered with the VOD provider. VOD content cannot be played back.	Check whether this device has been registered with the VOD provider.
Cannot play back HD file (FILE NOT PLAYABLE-HIGH DEF)	High definition (HD) DivX video cannot play.	Create playable one and retry.

SD/USB/iPod

Message	Cause	Action (Reference)
Tracks that cannot be played back will be skipped	Files that are protected by digital rights management.	The protected files are skipped.
	This type of file cannot be played by this unit.	Replace it with the playable file. (Page 153)

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Cannot play back all tracks	All the files on the inserted external storage device are secured by DRM.	Store playable files.
	All of the files cannot be played by this unit.	Replace it with the playable file. (Page 153)
USB flash drive was disconnected for device protection. Do not connect this USB flash drive to the unit. To restart USB, restart the unit.	The USB connector or USB cable is short-circuited.	Confirm that the USB connector or USB cable is not caught in something or damaged.
	The connected USB storage device consumes more than 500 mA (maximum allowable current).	Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect the compliant USB storage device.
	The USB interface cable for iPod is short-circuited.	Confirm that USB interface cable for iPod or USB cable is not caught in something or damaged.
Authorization failure. iPod is not connected.	The iPod is not compatible with this navigation system.	Use an iPod of a compatible version.
	Communication failure	• Disconnect the cable from iPod. Once iPod main menu is displayed, connect the cable again. • If the message appears frequently, consult your dealer.

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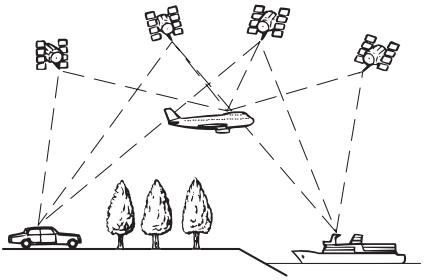
Appendix

Positioning technology

Positioning by GPS

The Global Positioning System (GPS) uses a network of satellites orbiting the Earth. Each of the satellites, which orbit at a height of 21 000 km, continually broadcasts radio signals giving time and position information. This ensures that signals from at least three can be picked up from any open area on the earth's surface.

The accuracy of the GPS information depends on how good the reception is. When the signals are strong and reception is good, GPS can determine latitude, longitude and altitude for accurate positioning in three dimensions. But if signal quality is poor, only two dimensions, latitude and longitude, can be obtained and positioning errors are somewhat greater.



Positioning by "Dead Reckoning"

The built-in sensor in the navigation system also calculates your position. The current location is measured by detecting driving distance with the speed pulse, the turning direction with the "Gyrosensor" and inclination of the road with the "G sensor".

The built-in sensor can even calculate changes of altitude, and corrects for discrepancies in the distance travelled caused by driving along winding roads or up slopes.

If you use this navigation system with connecting the speed pulse, the system will become more accurate than no connection of speed pulse. So you connect the speed pulse without fail to get the accuracy of positioning.

- The position of the speed detection circuit vary depending on the vehicle model. For details, consult your authorised Pioneer dealer or an installation professional.
- Some types of vehicles may not output a speed signal while driving at just a few kilometres per hour. In such a case, the current location of your vehicle may not be displayed correctly while in traffic jam or in a car park.

How do GPS and "Dead Reckoning" work together?

For maximum accuracy, your navigation system continually compares GPS data with your estimated position as calculated from the data of built-in sensor. However, if only the data from the built-in sensor is available for a long period, positioning errors are gradually compounded until the estimated position becomes unreliable. For this reason, whenever GPS signals are available, they are matched with the data of the built-in sensor and used to correct it for improved accuracy.

- If you use chains on your wheels for winter driving or put on the spare wheel, errors may suddenly increase because of difference in wheel diameter. Initialise the sensor status and it may recover the accuracy to normal condition.
  - For details, refer to *Clearing status* on page 64.

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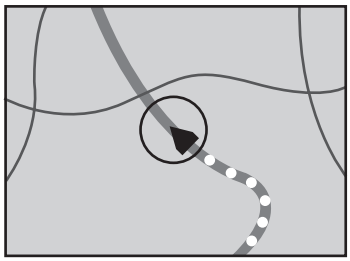
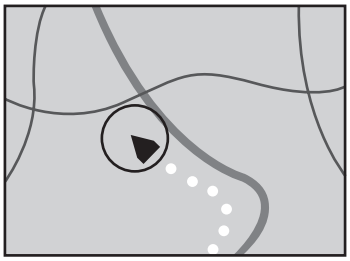
Map matching

As mentioned, the positioning systems used by this navigation system are susceptible to certain errors. Their calculations may, on occasion, place you in a location on the map where no road exists. In this situation, the processing system understands that vehicles travel only on roads, and can correct your position by adjusting it to a nearby road. This is called map matching.



With map matching



Without map matching

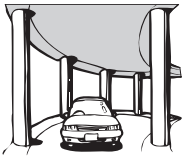
Handling large errors

Positioning errors are kept to a minimum by combining GPS, “Dead Reckoning” and map matching. However, in some situations, these functions may not work properly, and the error may become bigger.

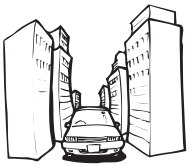
When positioning by GPS is impossible

- GPS positioning is disabled if signals cannot be received from more than two GPS satellites.
- In some driving conditions, signals from GPS satellites may not reach your vehicle. In this case, it is impossible for the system to use GPS positioning.

In tunnels or enclosed parking garages



Under elevated roads or similar structures



When driving among high buildings

When driving through a dense forest or tall trees

- If a car phone or mobile phone is used near the GPS aerial, GPS reception may be lost temporarily.
- Do not cover the GPS aerial with spray paint or car wax, because this may block the reception of GPS signals. Snow buildup can also degrade the signals, so keep the aerial clear.

❒ If a GPS signal have not been received for a long time, your vehicle’s actual position and the current position mark on the map may diverge considerably or may not be updated. In such case, once GPS reception is restored, accuracy will be recovered.

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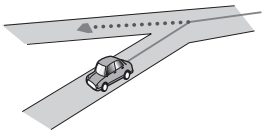
Appendix

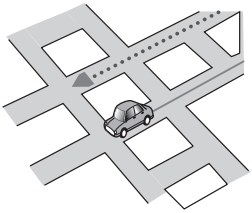
Conditions likely to cause noticeable positioning errors

For various reasons, such as the state of the road you are travelling on and the reception status of the GPS signal, the actual position of your vehicle may differ from the position displayed on the map screen.

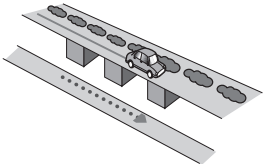
- If you make a shallow turn.



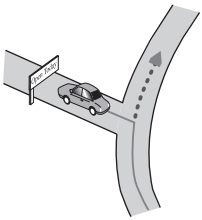
- If there is a parallel road.



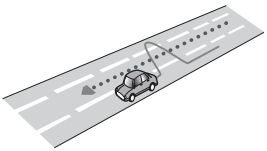
- If there is another road very nearby, such as in the case of an elevated motorway.



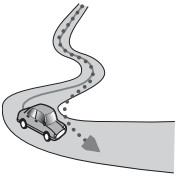
- If you take a recently opened road that is not on the map.



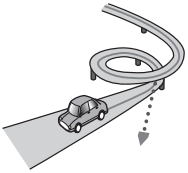
- If you drive in zigzags.



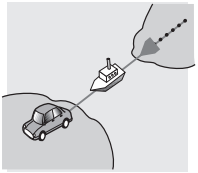
- If the road has a series of hairpin bends.



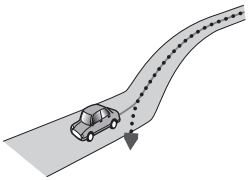
- If there is a loop or similar road configuration.



- If you take a ferry.



- If you are driving on a long, straight road or a gently curving road.



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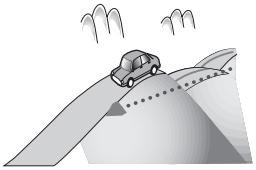
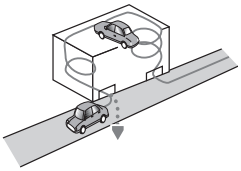
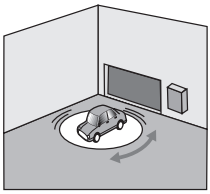
- If you are on a steep mountain road with many height changes.



- If you enter or exit a multi-storey car park or similar structure using a spiral ramp.

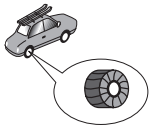


- If your vehicle is turned on a turntable or similar structure.

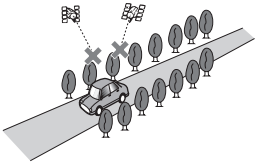


- If your vehicle's wheels spin, such as on a gravel road or in snow.

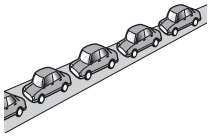
- If you put on chains, or change your tyres for ones with a different size.



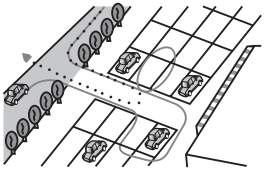
- If trees or other obstacles block the GPS signals for a considerable period.



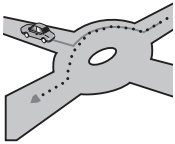
- If you drive very slowly, or in a start-and-stop manner, as in a traffic jam.



- If you join the road after driving around a large car park.



- When you drive around a roundabout.



- When starting driving immediately after starting the engine.

Route setting information

Route search specifications

Your navigation system sets a route to your destination by applying certain built-in rules to the map data. This section provides some useful information about how a route is set.

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Appendix

CAUTION

When a route is calculated, the route and voice guidance for the route are automatically set. Also, for day or time traffic regulations, only information about traffic regulations applicable at the time when the route was calculated is shown. One-way streets and street closures may not be taken into consideration. For example, if a street is open during the morning only, but you arrive later, it would be against the traffic regulations so you cannot drive along the set route. When driving, please follow the actual traffic signs. Also, the system may not know some traffic regulations.

- The calculated route is one example of the route to your destination decided by the navigation system while taking the type of streets or traffic regulations into account. It is not necessarily an optimum route. (In some cases, you may not be able to set the streets you want to take. If you need to take a certain street, set a waypoint on that street.)
- If the destination is too far, there may be instances where the route cannot be set. (If you want to set a long-distance route going across several areas, set waypoints along the way.)
- During voice guidance, turns and intersections from the motorway are announced. However, if you pass intersections, turns, and other guidance points in rapid succession, some may delay or not be announced.
- It is possible that guidance may direct you off a motorway and then back on again.
- In some cases, the route may require you to travel in the opposite direction to your current heading. In such cases, you are instructed to turn around, so please turn around safely by following the actual traffic rules.
- In some cases, a route may begin on the opposite side of a railway or river from your actual current location. If this happens, drive towards your destination for a while, and try route calculation again.
- When there is a traffic jam ahead, a detour route may not be suggested if driving through the traffic jam would still be better than taking the detour.
- There may be instances when the starting point, the waypoint and the destination point are not on the highlighted route.
- The number of roundabout exits displayed on the screen may differ from the actual number of roads.

Route highlighting

- Once set, the route is highlighted in bright colour on the map.
- The immediate vicinity of your starting point and destination may not be highlighted, and neither will areas with particularly complex road layouts. Consequently, the route may appear to be cut off on the display, but voice guidance will continue.

Auto reroute function

- If you deviate from the set route, the system will re-calculate the route from that point so that you remain on track to the destination.
- This function may not work under certain conditions. ■

Handling and care of discs

Some basic precautions are necessary when handling your discs.

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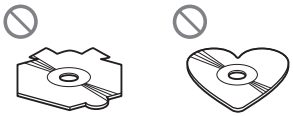
Built-in drive and care

- Use only conventional, fully circular discs. Do not use shaped discs.



- Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the built-in drive.
- Do not touch the recorded surface of the discs.
- Store discs in their cases when not in use.
- Avoid leaving discs in excessively hot environments including under direct sunlight.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean a disc, wipe it with a soft cloth, moving outward from the centre.

- Condensation may temporarily impair the built-in drive's performance. Leave it to adjust to the warmer temperature for about one hour. Also, wipe any damp discs with a soft cloth.
- Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions and so on.
- Road shocks may interrupt disc playback.
- Read the precautions for discs before using them.

Ambient conditions for playing a disc

- At extremely high temperatures, a temperature cutout protects this product by switching it off automatically.
- Despite our careful design of the product, small scratches that do not affect actual operation may appear on the disc surface as a result of mechanical wear, ambient conditions for use or handling of the disc. This is not a sign of the malfunction of this product. Consider it to be normal wear and tear.

Playable discs

DVD-Video and CD

DVD and CD discs that display the logos shown below generally can be played on this built-in DVD drive.

DVD-Video

CD

- is a trademark of DVD Format/Logo Licensing Corporation.
- It is not possible to play DVD-Audio discs. This DVD drive may not be able to play all discs bearing the marks shown above.

AVCHD recorded discs

This unit is not compatible with discs recorded in AVCHD (Advanced Video Codec High Definition) format. Do not insert AVCHD discs. If inserted, the disc may not be ejected.

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Appendix

Playing DualDisc

- DualDiscs are two-sided discs that have a recordable CD for audio on one side and a recordable DVD for video on the other.
- Playback of the DVD side is possible with this navigation system. However, since the CD side of DualDiscs is not physically compatible with the general CD standard, it may not be possible to play the CD side with this navigation system.
- Frequent loading and ejecting of a DualDisc may result in scratches to the disc.
- Serious scratches can lead to playback problems on this navigation system. In some cases, a DualDisc may become stuck in the disc loading slot and will not eject. To prevent this, we recommend you refrain from using DualDisc with this navigation system.
- Please refer to the manufacturer for more detailed information about DualDiscs.

Dolby Digital

AVIC-F10BT will down-mix Dolby Digital signals internally and the sound will be output in stereo. (Equipped with optical output for future extension.)

❒ Manufactured under licence from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

DTS sound

DTS audio cannot be output, so select an audio setting other than DTS.

“DTS” is registered trademarks of DTS, Inc.

Detailed information for playable media

Compatibility

Common notes about disc compatibility

- Certain functions of this product may not be available for some discs.
- Compatibility with all discs is not guaranteed.
- It is not possible to play back DVD-ROM/DVD-RAM discs.
- Playback of discs may become impossible with direct exposure to sunlight, high temperatures, or depending on the storage conditions in the vehicle.

DVD-Video discs

- DVD-Video discs that have incompatible region numbers cannot be played on this DVD drive. The region number of the player can be found on this product’s chassis.

DVD-R/DVD-RW/DVD-R DL (Dual Layer) discs

- Unfinalised discs which have been recorded with the Video format (video mode) cannot be played back.
- Discs which have been recorded with the Video Recording format (VR mode) can be played back. However, unfinalised discs may not be played back. Unplayable discs should be finalised.
- DVD-R DL (Dual Layer) discs which have been recorded with Layer Jump recording cannot be played back.
- For more information about recording mode, please contact the manufacturer of media, recorders, or writing software.
- The following logo indicates that this unit is compatible with DVD-RW discs which have been recorded with the Video Recording format (VR mode).

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Appendix

RW
COMPATIBLE

CD-R/CD-RW discs

- Unfinalised discs cannot be played back.
- It may not be possible to play back CD-R/CD-RW discs recorded on a music CD recorder or a personal computer because of disc characteristics, scratches or dirt on the disc, or dirt, scratches or condensation on the lens of the built-in drive.
- Playback of discs recorded on a personal computer may not be possible, depending on the recording device, writing software, their settings, and other environmental factors.
- Please record with the correct format. (For more details, please contact manufacturer of media, recorders, or writing software.)
- Titles and other text information recorded on a CD-R/CD-RW disc may not be displayed by this product (in the case of audio data (CD-DA)).
- Read the precautions with CD-R/CD-RW discs before using them.

Common notes about the external storage device (USB, SD)

- Do not leave the external storage device (USB, SD) in any location with high temperatures.
- Depending on the kind of the external storage device (USB, SD) you use, this navigation system may not recognise the storage device or files may not be played back properly.
- The text information of some audio and video files may not be correctly displayed.
- File extensions must be used properly.
- There may be a slight delay when starting playback of files on an external storage device (USB, SD) with complex folder hierarchies.
- Operations may vary depending on the kind of an external storage device (USB, SD).
- It may not be possible to play some music files from SD or USB because of file characteristics, file format, recorded application, playback environment, storage conditions, and so on.

USB storage device compatibility

➲ For more details about USB storage device compatibility with this navigation system, refer to *Specifications* on page 168.

Protocol: bulk

- You cannot connect a USB storage device to this navigation system via a USB hub.
- Partitioned USB memory is not compatible with this navigation system.
- Firmly secure the USB storage device when driving. Do not let the USB storage device fall onto the floor, where it may become jammed under the brake or accelerator pedal.
- There may be a slight delay when starting playback of audio files encoded with image data.
- Some USB storage devices connected to this navigation system may generate noise on the radio.
- Do not connect anything other than the USB memory device.

The sequence of audio files on USB memory

For USB memory, the sequence is different from that of USB memory device.

SD memory card and SDHC memory card

- For more details about SD memory card compatibility with this navigation system, refer to *Specifications* on page 168.

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Appendix

Handling guidelines and supplemental information

- This system is not compatible with Multi Media Card (MMC).
- Copyright protected files cannot be played back.

Notes specific to DivX files

- Only DivX files downloaded from DivX partner sites are guarantee for proper operation. Unauthorised DivX files may not operate properly.
- DRM rental files cannot be operated until playing back is started.
- The navigation system corresponds to a DivX file display of up to 1 590 minutes 43 seconds. Search operations beyond this time limit are prohibited.
- DivX VOD file playback requires supplying the ID code of this navigation system to the DivX VOD provider. Regarding the ID code, refer to *Making a phone call using the received call history* on page 55.
- Plays all versions of DivX video (including DivX 6) with standard playback of DivX media files.
- For more details about DivX, visit the following site:
  http://www.divx.com/

DivX subtitle files

- Srt format subtitle files with the extension ".srt" can be used.
- Only one subtitle file can be used for each DivX file. Multiple subtitle files cannot be associated.
- Subtitle files that are named with the same character string as the DivX file before the extension are associated with the DivX file. The character strings before the extension must be exactly the same. However, if there is only one DivX file and one subtitle file in a single folder, the files are associated even if the file names are not the same.
- The subtitle file must be stored in the same folder as the DivX file.
- Up to 255 subtitle files may be used. Any more subtitle files will not be recognised.
- Up to 64 characters can be used for the name of the subtitle file, including the extension. If more than 64 characters are used for the file name, the subtitle file may not be recognised.
- The character code for the subtitle file should comply with ISO-8859-1. Using characters other than ISO-8859-1 may cause the characters to be displayed incorrectly.
- The subtitles may not be displayed correctly if the displayed characters in the subtitle file include control code.
- For materials that use a high transfer rate, the subtitles and video may not be completely synchronised.
- If multiple subtitles are programmed to display within a very short time frame, such as 0.1 seconds, the subtitles may not be displayed at the correct time.

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Appendix

Media compatibility chart

General

Media	CD-R/-RW	DVD-R/-RW/-R DL	USB storage device	SD memory card
File system	ISO9660 level 1, ISO9660 level 2, Romeo and Joliet	ISO9660 level 1, ISO9660 level 2, Romeo, Joliet and UDF 1.02	FAT16/FAT32	
Maximum number of folders	700		300	
Maximum number of files	999	3 500	2 500	
Playable file types	MP3, WMA, AAC, DivX		MP3, WMA, AAC, WAV, AVI, WMV, MPEG-4	
Notes: Maximum playback time of audio file stored in the external storage device (USB, SD): 7.5 h (450 minutes)				

MP3 compatibility

Media	CD-R/-RW	DVD-R/-RW/-R DL	USB storage device	SD memory card
File extension	.mp3			
Bit rate	8 kbps to 320 kbps (CBR), VBR			
Sampling frequency	16 kHz to 48 kHz (32 kHz, 44.1 kHz, 48 kHz for emphasis)		8 kHz to 48 kHz	
ID3 tag	ID3 Tag Ver. 1.0, 1.1, 2.2, 2.3		ID3 Tag Ver. 1.0, 1.1, 2.2, 2.3, 2.4	

Notes:
- Ver. 2.x of ID3 Tag is given priority when both Ver. 1.x and Ver. 2.x exist.
- The navigation system is not compatible with the following:
  MP3i (MP3 interactive), mp3 PRO, m3u playlist

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Appendix

WMA compatibility

Media	CD-R/-RW	DVD-R/-RW/-R DL	USB storage device	SD memory card
File extension	.wma			
Bit rate	5 kbps to 320 kbps (CBR), VBR			
Sampling frequency	8 kHz to 48 kHz			
Note: The navigation system is not compatible with the following: Windows Media Audio 9 Professional, Lossless, Voice				

WAV compatibility

Media	CD-R/-RW	DVD-R/-RW/-R DL	USB storage device	SD memory card
File extension	WAV files on the CD-R/-RW, DVD-R/-RW/-R DL cannot be played.		.wav	
Format			Linear PCM (LPCM), IMA-ADPCM	
Sampling frequency			LPCM: 16 kHz to 48 kHz IMA-ADPCM: 22.05 kHz and 44.1 kHz	
Quantisation bits			LPCM: 8 bits and 16 bits MS ADPCM: 4 bits	
Note: The sampling frequency shown in the display may be rounded.				

AAC compatibility

Media	CD-R/-RW	DVD-R/-RW/-R DL	USB storage device	SD memory card
File extension	.m4a			
Bit rate	8 kbps to 320 kbps (CBR)			
Sampling frequency	8 kHz to 44.1 kHz		8 kHz to 18 kHz	
Notes: The navigation system plays back AAC files encoded by iTunes.				

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Appendix

DivX compatibility

Media	CD-R/-RW	DVD-R/-RW/-R DL	USB storage device	SD memory card
File extension	.avi/.divx		DivX files on the external storage device (USB, SD) cannot be played.	
Profile (DivX version)	Home Theater Ver. 3.11/Ver. 4.x/Ver. 5.x/ Ver. 6.x			
Compatible audio codec	MP3, Dolby Digital			
Bit rate (MP3)	8 kbps to 320 kbps (CBR), VBR			
Sampling frequency (MP3)	16 kHz to 48 kHz (32 kHz, 44.1 kHz, 48 kHz for emphasis)			
Maximum image size	720 pixels × 576 pixels			
Maximum file size	4 GB			

Notes:

- The navigation system is not compatible with the following:
  DivX Ultra format, DivX files without video data, DivX files encoded with LPCM (Linear PCM) audio codec
- Depending on the file information composition, such as the number of audio streams, there may be a slight delay in the start of playback on discs.
- If a file contains more than 4 GB, playback stops before the end.
- Some special operations may be prohibited because of the composition of DivX files.
- Files with high transfer rates may not be played back correctly. The standard transfer rate is 4 Mbps for CDs and 10.08 Mbps for DVDs.

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Appendix

Video files compatibility (USB, SD)

File extension	.avi	.mp4		.m4v	.wmv
Format	MPEG-4	MPEG-4	H.264	MPEG-4	WMV
Compatible video codec	MPEG-4	MPEG-4	H.264	MPEG-4	WMV
Compatible audio codec	Linear PCM (LPCM), IMA-ADPCM MP3	AAC	AAC	AAC	WMA
Recommended video specifications	Image size: QVGA (320 pixels x 240 pixels) Bit rate: 768 kbps Frame rate: 30 fps	Image size: QVGA (320 pixels x 240 pixels) Bit rate: 768 kbps Frame rate: 30 fps	Image size: QVGA (320 pixels x 240 pixels) Bit rate: 384 kbps Frame rate: 30 fps	Image size: QVGA (320 pixels x 240 pixels) Bit rate: 768 kbps Frame rate: 30 fps	Image size: QVGA (320 pixels x 240 pixels) Bit rate: 384 kbps Frame rate: 30 fps
Maximum file size	2 GB				
Maximum playback time	150 minutes				

Common notes

- The navigation system may not operate correctly, depending on the application used to encode WMA files.
- Depending on the version of Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
- There may be a slight delay when starting playback of audio files encoded with image data.
- The navigation system is not compatible with packet write data transfer.
- This navigation system can recognise up to 32 characters, beginning with the first character, including extension for the file and folder name. Depending on the display area, the navigation system may try to display them with a reduced font size. However, the maximum number of the characters that you can display varies according to the width of each character, and of the display area.
- Folder selection sequence or other operations may be altered, depending on the encoding or writing software.
- Regardless of the length of blank section between the songs of original recording, compressed audio discs play with a short pause between songs.

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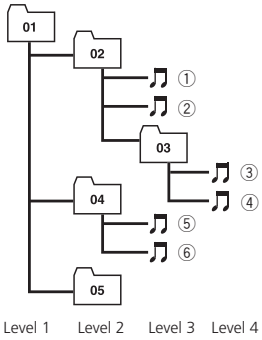
Example of a hierarchy

The following figure is an example of the tier structure in the disc. The numbers in the figure indicate the order in which folder numbers are assigned and the order to be played back.
: Folder
: File



Notes

- This product assigns folder numbers. The user cannot assign folder numbers.
- If there is a folder that does not contain any playable file, the folder itself will display in the folder list but you cannot check any files in the folder. (A blank list will appear.) Also, these folders will be skipped without displaying the folder number.

Bluetooth

Bluetooth is a short-range wireless radio connectivity technology that is developed as a cable replacement for mobile phones, handheld PCs and other devices. Bluetooth operates in 2.4 GHz frequency range and transmits voice and data at speeds up to 1 megabit per second. Bluetooth was launched by a special interest group (SIG) comprising Ericsson Inc., Intel Corp., Nokia Corp., Toshiba and IBM in 1998, and it is currently developed by nearly 2 000 companies worldwide.

- The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Pioneer Corporation is under licence. Other trademarks and trade names are those of their respective owners.

SD and SDHC logo

SD Logo is a trademark.

SDHC Logo is a trademark.

WMA/WMV

Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

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Appendix

DivX

DivX is a compressed digital video format created by the DivX video codec from DivX, Inc. This unit can play DivX video files recorded on CD-R/RW/ROM and DVD-R/RW/ROM discs. Keeping the same terminology as DVD video, individual DivX video files are called “Titles”. When naming files/titles on a CD-R/RW or a DVD-R/RW disc prior to burning, keep in mind that by default they will be played in alphabetical order.
Plays DivX® video.

❒ DivX® is a registered trademark of DivX, Inc., and is used under licence. ■

AAC

AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG-2 and MPEG-4. Several applications can be used to encode AAC files, but file formats and extensions differ depending on the application which is used to encode. This unit plays back AAC files encoded by iTunes version 7.7. ■

Detailed information regarding connectable iPods

CAUTION

- Pioneer accepts no responsibility for data lost from an iPod, even if that data is lost while using the navigation system.
- Do not leave the iPod in direct sunlight for extended amounts of time. Extended exposure to direct sunlight can result in iPod malfunction due to the resulting high temperature.
- Do not leave the iPod in any location with high temperatures.
- Firmly secure the iPod when driving. Do not let the iPod fall onto the floor, where it may become jammed under the brake or accelerator pedal.

For details, refer to the iPod’s manuals.

iPod

“Made for iPod” means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.
Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

iPhone

“Works with iPhone” means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.
Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
iPhone is a trademark of Apple Inc.

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iTunes

iTunes is a trademark of Apple Inc., registered in the U.S. and other countries.

Using the LCD screen correctly

Handling the LCD screen

- When the LCD screen is subjected to direct sunlight for a long period of time, it will become very hot, resulting in possible damage to the LCD screen. When not using this navigation system, avoid exposing it to direct sunlight as much as possible.
- The LCD screen should be used within the temperature ranges shown in "*Specifications*".
- Do not use the LCD screen at temperatures higher or lower than the operating temperature range, because the LCD screen may not operate normally and could be damaged.
- The LCD screen is exposed in order to increase its visibility within the vehicle. Please do not press strongly on it as this may damage it.
- Do not push the LCD screen with excessive force as this may scratch it.
- Never touch the LCD screen with anything besides your finger when operating the Touch panel functions. The LCD screen can scratch easily.

Liquid crystal display (LCD) screen

- If the LCD screen is near the vent of an air conditioner, make sure that air from the air conditioner is not blowing on it. Heat from the heater may break the LCD screen, and cool air from the cooler may cause moisture to form inside the navigation unit, resulting in possible damage.
- Small black dots or white dots (bright dots) may appear on the LCD screen. These are due to the characteristics of the LCD screen and do not indicate a malfunction.
- The LCD screen will be difficult to see if it is exposed to direct sunlight.
- When using a mobile phone, keep the antenna of the mobile phone away from the LCD screen to prevent disruption of the video in the form of disturbances such as spots or coloured stripes.

Maintaining the LCD screen

- When removing dust from the LCD screen or cleaning it, first turn the system power off, then wipe with a soft dry cloth.
- When wiping the LCD screen, take care not to scratch the surface. Do not use harsh or abrasive chemical cleaners.

LED (light-emitting diode) backlight

A light emitting diode is used inside the display to illuminate the LCD screen.

- At low temperatures, using the LED backlight may increase image lag and degrade the image quality because of the characteristics of the LCD screen. Image quality will improve with an increase in temperature.
- The product lifetime of the LED backlight is more than 10 000 hours. However, it may decrease if used in high temperatures.
- If the LED backlight reaches the end of its product lifetime, the screen will become dimmer and the image will no longer be visible. In that case, please consult your dealer or the nearest authorised PIONEER Service Station.

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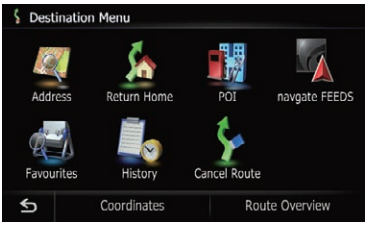
Appendix

Display information

Destination Menu



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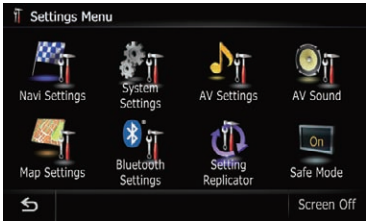

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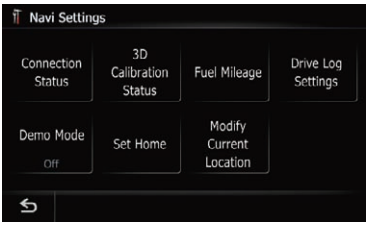

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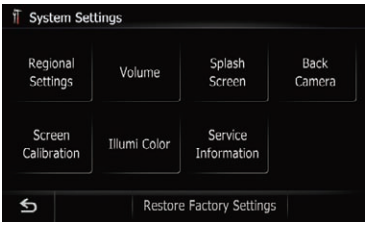

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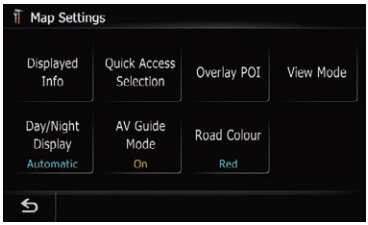

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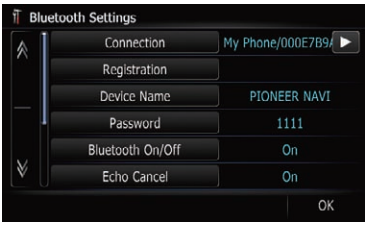

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Appendix

Glossary

AAC
AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG-2 and MPEG-4.

Aspect ratio
This is the width-to-height ratio of a TV screen. A regular display has an aspect ratio of 4:3. Wide screen displays have an aspect ratio of 16:9, providing a bigger picture for exceptional presence and atmosphere.

Bit rate
This expresses data volume per second, or bps units (bits per second). The higher the rate, the more information is available to reproduce the sound. Using the same encoding method (such as MP3), the higher the rate, the better the sound.

Built-in sensor
The built-in sensor that enables the system to estimate your vehicle's position.

CD-DA
This stands for a general music CD (commercial-release audio CD). In this manual, this word is sometime used for a distinction between data CDs (which include compressed audio files) and general music CDs.

Chapter
Titles of DVD-Video or DVD-VR are in turn divided into chapters which are numbered in the same way as the chapters of a book. With discs featuring chapters, you can quickly find a desired scene with chapter search.

Current location
The present location of your vehicle; your current location is shown on the map by a red triangle mark.

Destination
A location you choose as the end point of your journey.

DivX
DivX is a popular media technology created by DivX, Inc. DivX media files contain highly compressed video with high visual quality that maintains a relatively small file size. DivX files can also include advanced media features like menus, subtitles, and alternate audio tracks. Many DivX media files are available for download online, and you can create your own using your personal content and easy-to-use tools from DivX.com.

DivX Certified
DivX Certified products are officially tested by the creators of DivX and guaranteed to play all versions of DivX video, including DivX 6.

Favourites
A frequently visited location (such as your workplace or a relative's home) that you can register to allow easy routing.

GPS
Global Positioning System. A network of satellites that provides navigation signals for a variety of purposes.

Guidance mode
The mode in which guidance is given as you drive to your destination; the system automatically switches to this mode as soon as a route has been set.

Guidance point
These are important landmarks along your route, generally intersections. The next guidance point along your route is indicated on the map by the yellow flag icon.

Home location
Your registered home location.

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ID3 tag
This is a method of embedding track-related information in an MP3 file. This embedded information can include the track title, the artist's name, the album title, the music genre, the year of production, comments and other data. The contents can be freely edited using software with ID3 Tag editing functions. Although the tags are restricted by the number of characters, the information can be viewed when the track is played back.

ISO9660 format
This is the international standard for the format logic of DVD/CD-ROM folders and files. For the ISO9660 format, there are regulations for the following two levels:

- **Level 1:**
  The file name is in 8.3 format (the name consists of up to 8 characters, half-byte English capital letters, half-byte numerals and the "_" sign, with a file-extension of three characters).
- **Level 2:**
  The file name can have up to 31 characters (including the separation mark "." and a file extension). Each folder contains less than 8 hierarchies.
- **Extended formats**
  Joliet:
  File names can have up to 64 characters.
  Romeo:
  File names can have up to 128 characters.

JPEG
This stands for Joint Photographic Experts Group, and is an international still image compression standard.

MP3
MP3 is short for MPEG Audio Layer 3. It is an audio compression standard established by a working group (MPEG) of the ISO (International Standards Organization). MP3 is able to compress audio data to about 1/10th the size of a conventional disc.

MPEG
This stands for Moving Pictures Experts Group, and is an international video image compression standard.

Multi-angle
With regular TV programmes, although multiple cameras are used to simultaneously shoot scenes, only images from one camera at a time are transmitted to your TV. Some DVDs feature scenes shot from multiple angles, letting you choose your viewing angle as desired.

Multi-audio (Multilingual dialogue)
Some videos feature dialogue recorded in multiple languages or audio recorded in multiple tracks. For example, dialogue in up to 8 languages can be recorded on a single DVD-Video, letting you choose the language as desired.

Multi-session
Multi-session is a recording method that allows additional data to be recorded later. When recording data on a CD-ROM, CD-R or CD-RW, etc., all data from beginning to end is treated as a single unit or session. Multi-session is a method of recording more than 2 sessions in one disc.

Multi-subtitle
For example, subtitles in up to 32 languages can be recorded on a single DVD-Video, letting you choose as desired.

Packet write
This is a general term for a method of writing individual files to a CD-R, etc. whenever required, just as is done with files on floppy or hard disks.

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Parental lock
Some DVD-Video discs with violent or adult-oriented scenes feature parental lock which prevents children from viewing such scenes. With this kind of disc, if you set the unit's parental lock level, playback of scenes inappropriate for children will be disabled, or these scenes will be skipped.

Phone book
An address book on user's phone is collectively referred to as "Phone book". Depending on the mobile phone, the "Phone book" may be called a name such as "Contacts", "Business card" or something else.

Point of Interest (POI)
Point Of Interest; any of a range of locations stored in the data, such as railway stations, shops, restaurants, and amusement parks.

Region number
DVD players and DVD discs feature region numbers indicating the area in which they were purchased. Playback of a DVD is not possible unless it features the same region number as the DVD player.

Route setting
The process of determining the ideal route to a specific location; route setting is done automatically by the system when you specify a destination.

Set route
The route marked out by the system to your destination. It is highlighted in bright colour on the map.

Title
DVD-Video or DVD-VR discs have a high data capacity, enabling recording of multiple videos on a single disc. If, for example, one disc contains three separate videos, they are divided into title 1, title 2 and title 3. This lets you enjoy the convenience of title search and other functions.

Track log
Your navigation system logs routes that you already passed through if the track logger is activated. This recorded route is called a "track log". It is handy when you want to check a route travelled or if returning along a complex route.

VBR
VBR is short for variable bit rate. Generally speaking, CBR (constant bit rate) is more widely used. But by flexibly adjusting the bit rate according to the needs of audio compression, it is possible to achieve compression-priority sound quality.

Voice guidance
The giving of directions by navigation voice while in guidance.

Waypoint
A location that you choose to visit before your destination; a journey can be built up from multiple waypoints and the destination.

WMA
WMA is short for Windows Media™ Audio and refers to an audio compression technology that is developed by Microsoft Corporation. ■

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Appendix

Specifications

General

Rated power source ..... 14.4 V DC (allowable voltage range: 10.8 V to 14.4 V DC)
Earthing system ..... Negative type
Maximum current consumption ..... 10.0 A
Dimensions (W × H × D):
DIN
Chassis ..... 188 mm × 118 mm × 157 mm
Nose ..... 170 mm × 96 mm × 25 mm
D
Chassis ..... 178 mm × 100 mm × 165 mm
Nose ..... 170 mm × 96 mm × 17 mm
Weight ..... 2.97 kg
NAND flash memory ..... 4 GB

Navigation

GPS Receiver:
System ..... L1, C/Acode GPS SPS (Standard Positioning Service)
Reception system ..... 30-channel multi-channel reception system
Reception frequency .... 1 575.42 MHz
Sensitivity ..... –140 dBm (typ)
Position update frequency ..... Approx. once per second
GPS aerial:
Aerial ..... Micro strip flat aerial/right-handed helical polarisation
Aerial cable ..... 5.0 m
Dimensions (W × H × D) ..... 33 mm × 14.7 mm × 36 mm
Weight ..... 96 g

Display

Screen size/aspect ratio ..... 7 inch wide/16:9 (effective display area: 159 mm × 84 mm)
Pixels ..... 384 000 (800 × 480)
Display method ..... TFT Active matrix driving
Backlight ..... LED
Colour system ..... PAL/NTSC compatible
Tolerable temperature range:
Power on ..... –10 °C to +60 °C
Power off ..... –20 °C to +80 °C
Angle adjustment ..... 0° to 22°

Audio

Maximum power output ..... 50 W × 4
50 W × 2 ch/4 Ω + 70 W × 1 ch/2 Ω (for subwoofer)
Continuous power output ... 22 W × 4 (50 Hz to 15 kHz, 5 %THD, 4 Ω LOAD, Both Channels Driven)
Load impedance ..... 4 Ω (4 Ω to 8 Ω [2 Ω for 1 ch] allowable)
Preout output level (max) .... 4 V
Preout impedance ..... 100 ohm
Equaliser (7-Band Graphic Equaliser):
Frequency ..... 50 Hz/125 Hz/315 Hz/800 Hz/2 kHz/5 kHz/12.5 kHz
Gain ..... ±12 dB
Loudness contour:
Low ..... +3.5 dB (100 Hz), +3 dB (10 kHz)
Mid ..... +10 dB (100 Hz), +6.5 dB (10 kHz)
High ..... +11 dB (100 Hz), +11 dB (10 kHz)
(volume: –30 dB)
HPF:
Frequency ..... 50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope ..... –12 dB/oct
Subwoofer:
Frequency ..... 50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope ..... –18 dB/oct
Gain ..... –24/+6 dB
Phase ..... Normal/Reverse
Bass boost:
Gain ..... 0 dB to +12 dB

DVD Drive

System ..... DVD-Video, CD, MP3, WMA, AAC, DivX system
Usable discs ..... DVD-Video, CD, MP3, WMA, AAC, DivX
Region number 5
Signal format:
Sampling frequency ..... 44.1 kHz/48 kHz/96 kHz
Number of quantisation bits ..... 16 bit/20 bit/24 bit; linear
Frequency response ..... 5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio ..... 97 dB (1 kHz) (IEC-A network)
(CD: 96 dB (1 kHz) (IEC-A network))

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Dynamic range ..... 95 dB (1 kHz) (CD: 94 dB (1 kHz))
Distortion ..... 0.008 % (1 kHz)
Output level:
Video ..... 1.0 Vp-p/75 Ω (±0.2 V)
Audio ..... 1.0 V (1 kHz, 0 dB)
Number of channels ..... 2 (stereo)
MP3 decoding format ..... MPEG-1 & 2 Audio Layer 3
WMA decoding format Ver.9.0 L3
AAC decoding format ..... MPEG-4 AAC (only encoded by iTunes): .m4a
DivX decoding format ..... Home Theater Ver.3.11, Ver.4.X, Ver.5.X, Ver.6.X : .avi, .divx

USB

USB standard spec. ..... USB 2.0 High Speed
Max current supply ..... 500 mA
Max memory capacity ..... 16 GB
File system FAT16, FAT32
USB class ..... Mass storage class
Decoding format MP3/WMA/AAC/WAVE/H.264/MPEG4/WMV

SD

Compatible physical format ..... Version 2.00
Max memory capacity ..... 16 GB
File system FAT16, FAT32
Decoding format MP3/WMA/AAC/WAVE/H.264/MPEG4/WMV

Bluetooth

Version ..... Bluetooth 2.0+EDR
Output power ..... +4 dBm Max. (Power class 2)

FM tuner

Frequency range ..... 87.5 MHz to 108.0 MHz
Usable sensitivity ..... 9 dBf (0.8 μV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio ..... 72 dB (IEC-A network)
Distortion ..... 0.3 % (at 65 dBf, 1 kHz, stereo) 0.1 % (at 65 dBf, 1 kHz, mono)
Frequency response ..... 30 Hz to 15 000 Hz (±3 dB)
Stereo separation ..... 45 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range ..... 531 kHz to 1 602 kHz (9 kHz)
Usable sensitivity ..... 25 μV (S/N: 20 dB)
Signal-to-noise ratio ..... 62 dB (IEC-A network)

LW tuner

Frequency range ..... 153 kHz to 281 kHz
Usable sensitivity ..... 28 μV (S/N: 20 dB)
Signal-to-noise ratio ..... 62 dB (IEC-A network)

Note

Specifications and design are subject to possible modifications without notice due to improvements. ■

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